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(54) **COMBINATION TREATMENT SELECTION
METHODS AND SYSTEMS**

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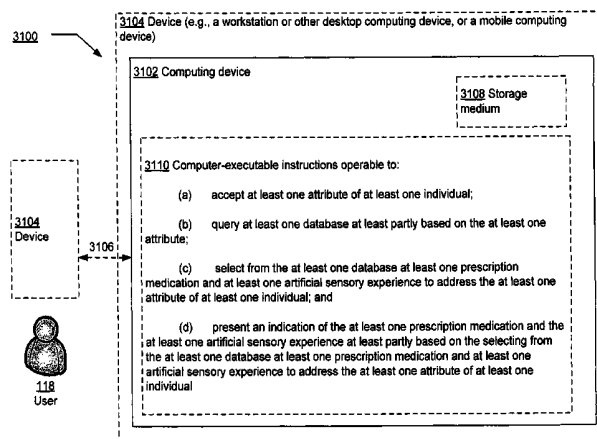
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(57) **ABSTRACT**

Methods, computer program products, and systems are described that include accepting at least one attribute of at least one individual, querying at least one database at least partly based on the at least one attribute, selecting from the at least one database at least one prescription medication and at least one artificial sensory experience to address the at least one attribute of at least one individual, and/or presenting an indication of the at least one prescription medication and the at least one artificial sensory experience at least partly based on the selecting from the at least one database at least one prescription medication and at least one artificial sensory experience to address the at least one attribute of at least one individual.

23 Claims, 31 Drawing Sheets



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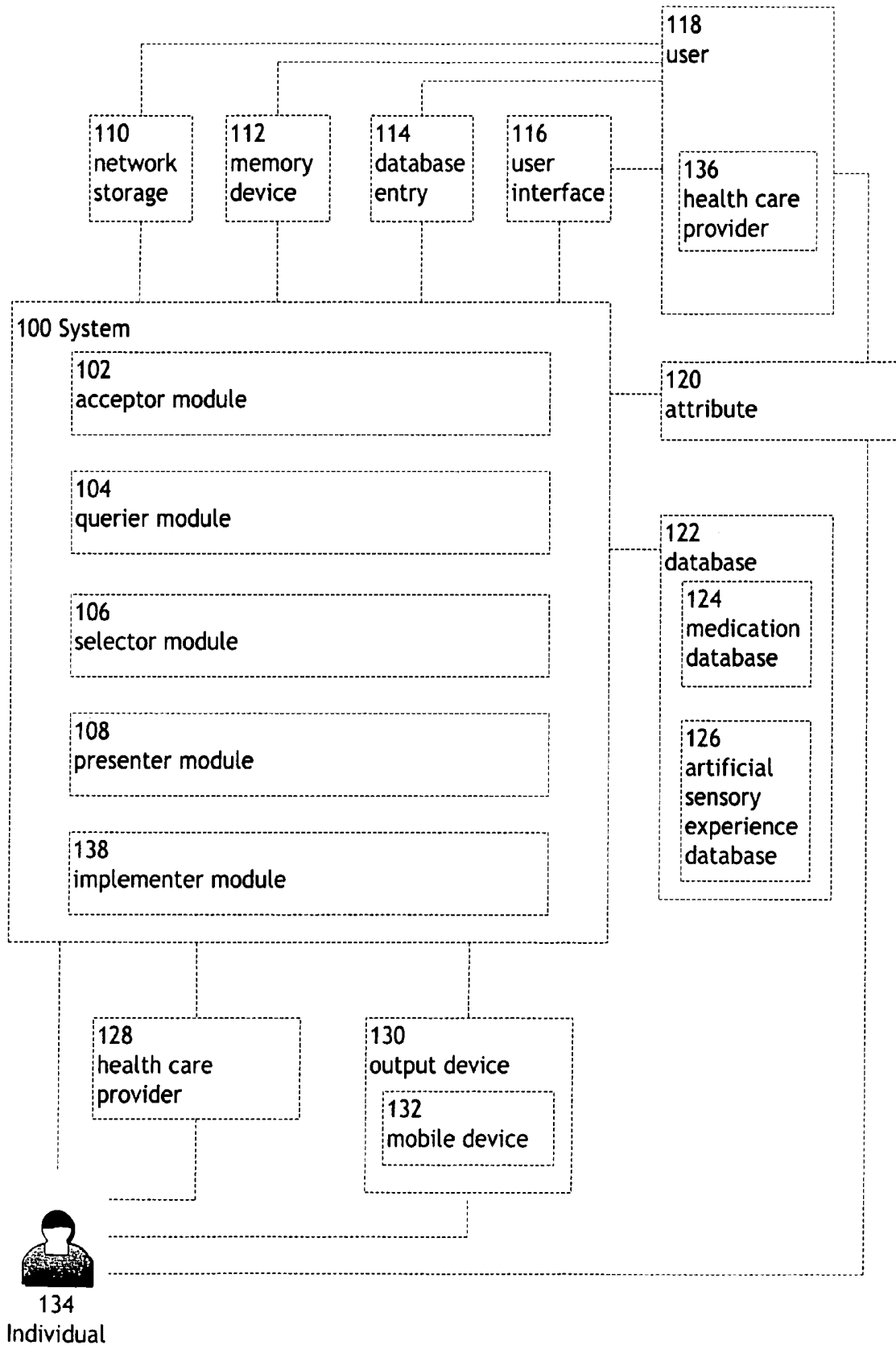
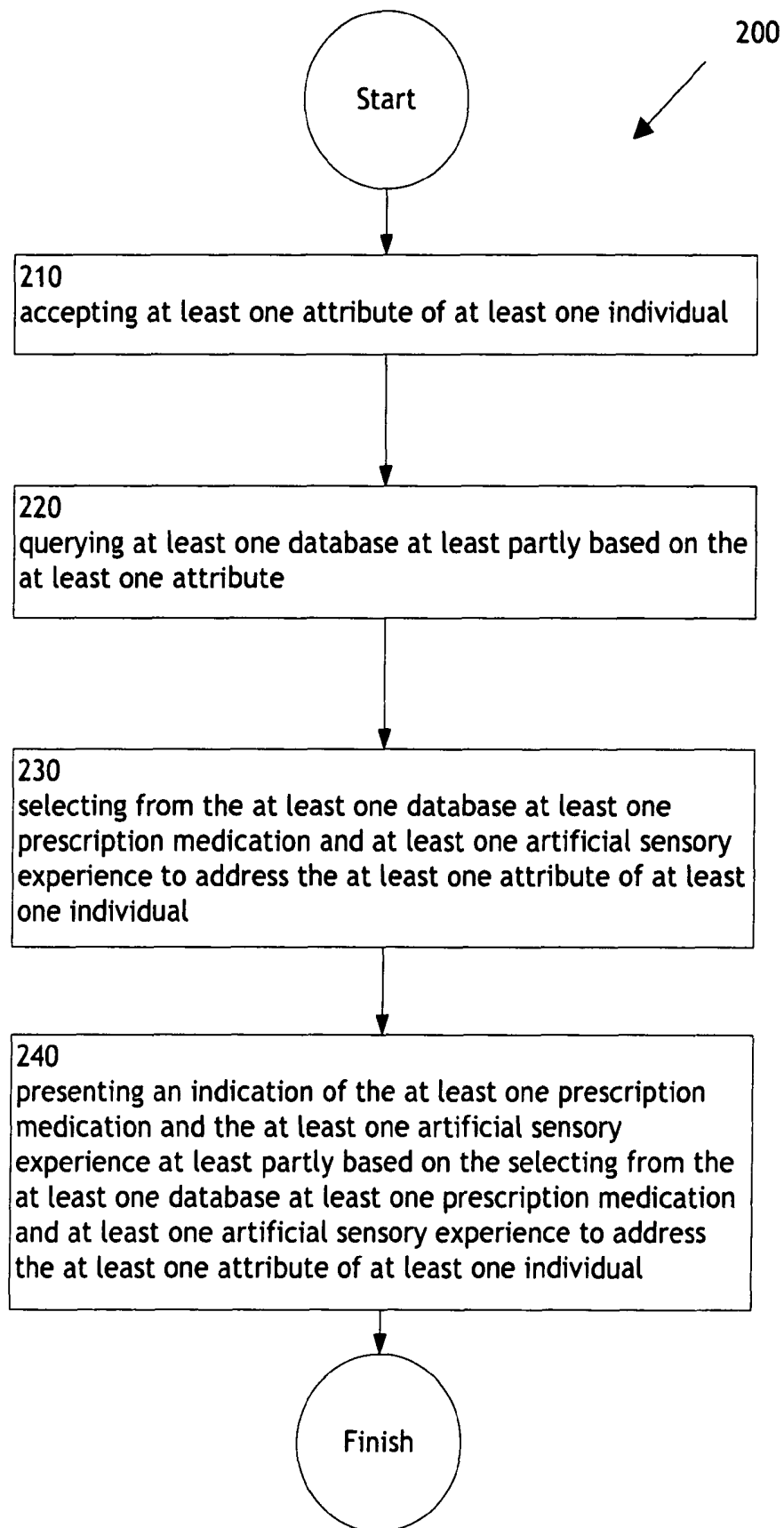


Figure 1

**Figure 2**

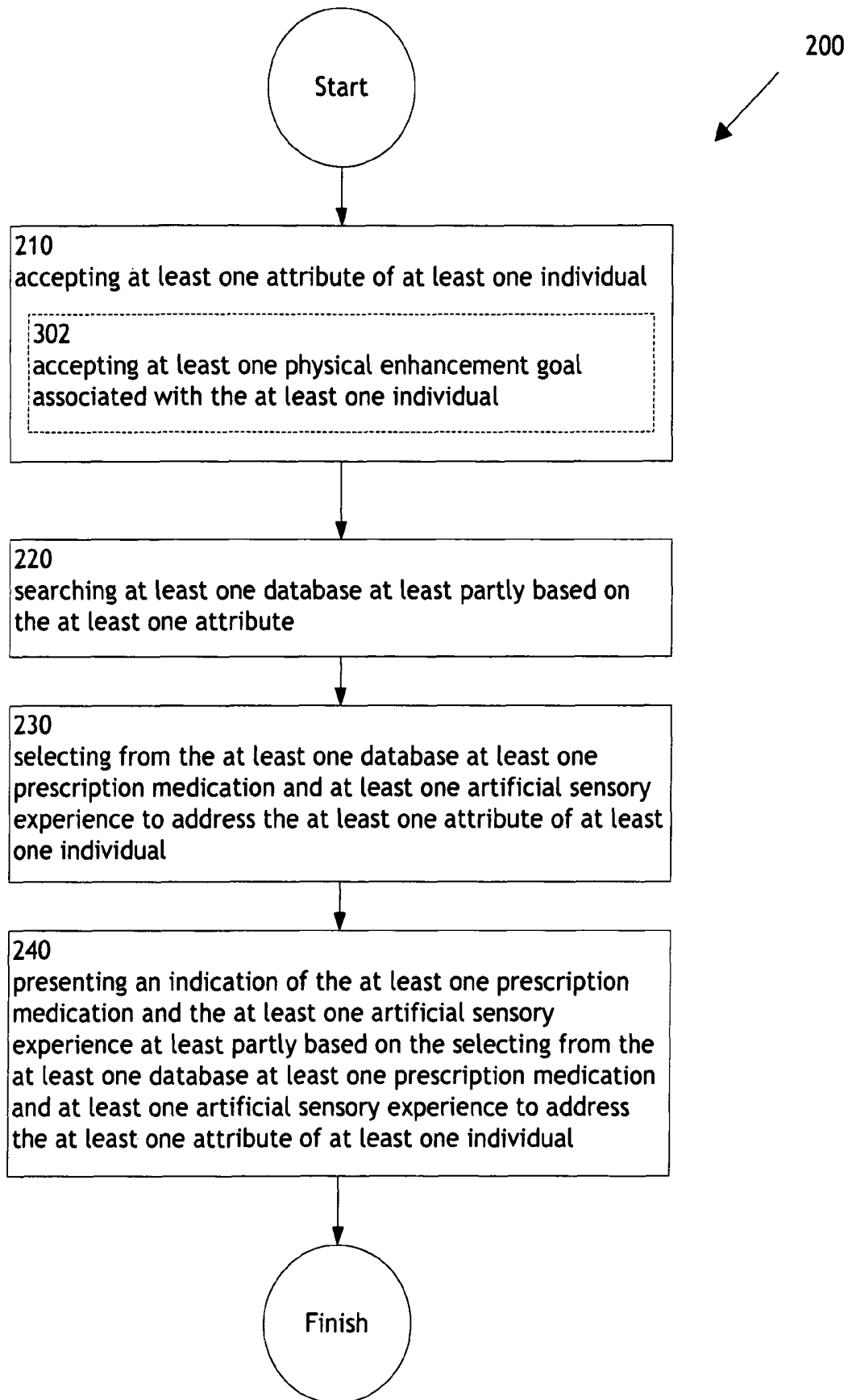
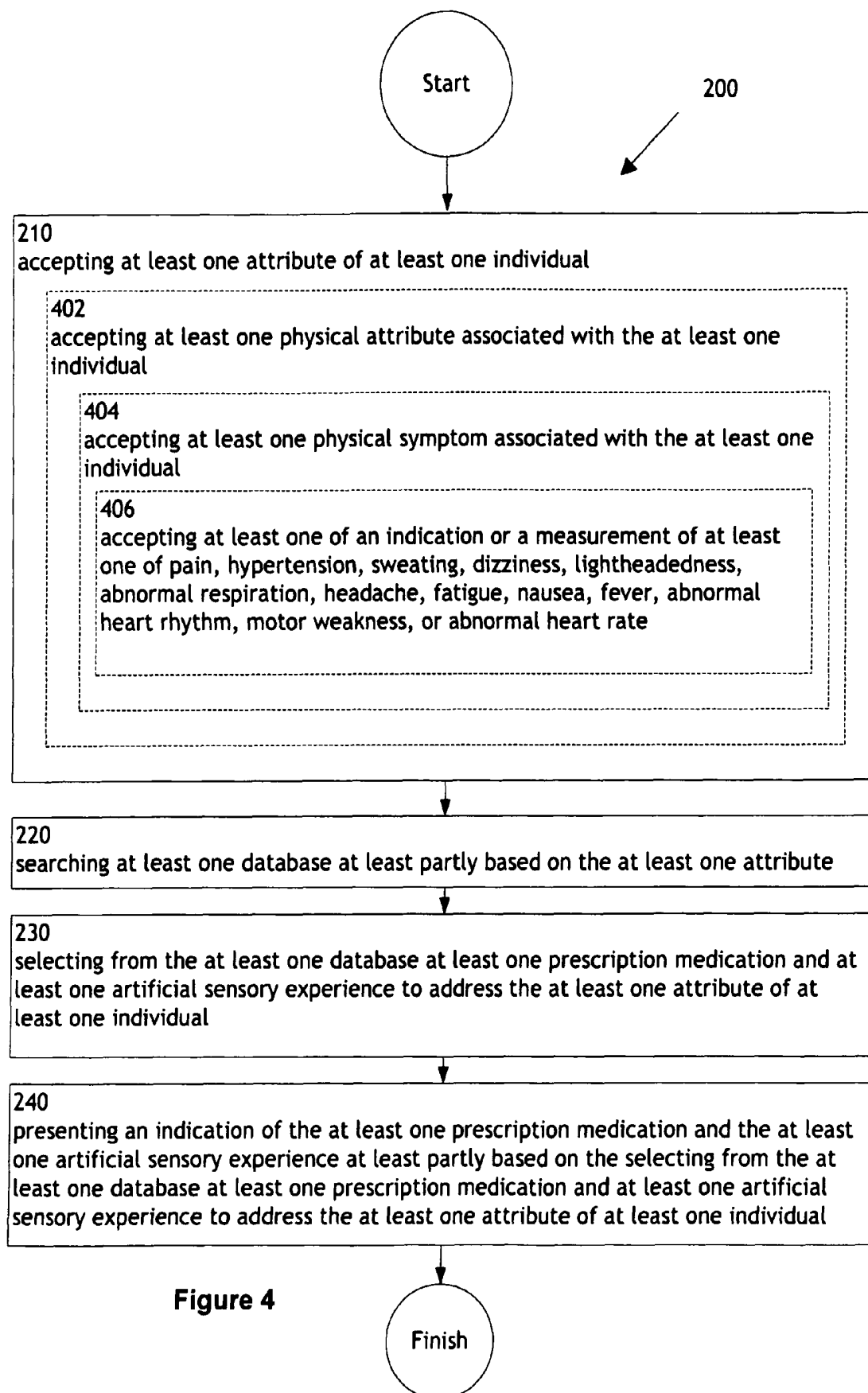


Figure 3



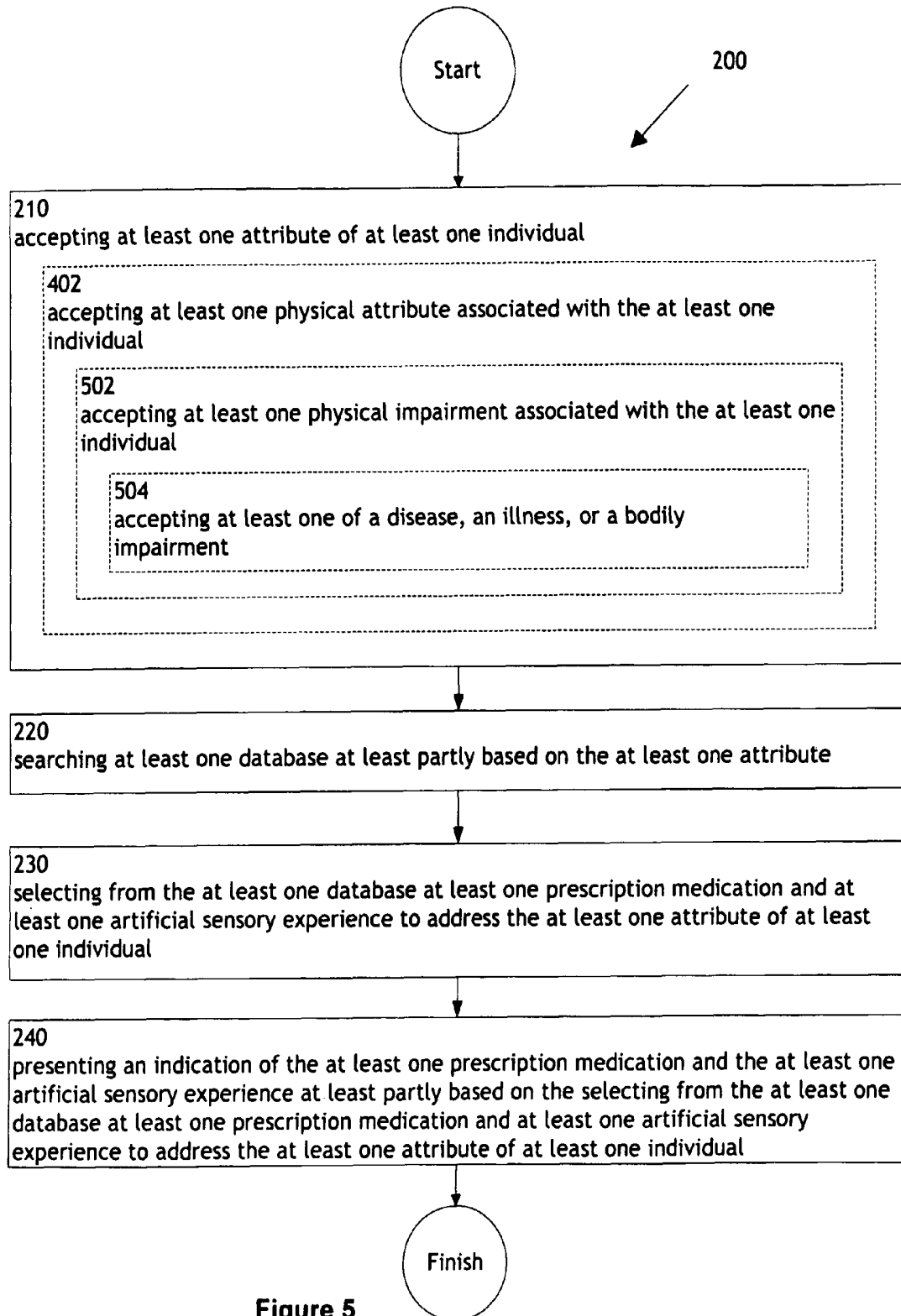


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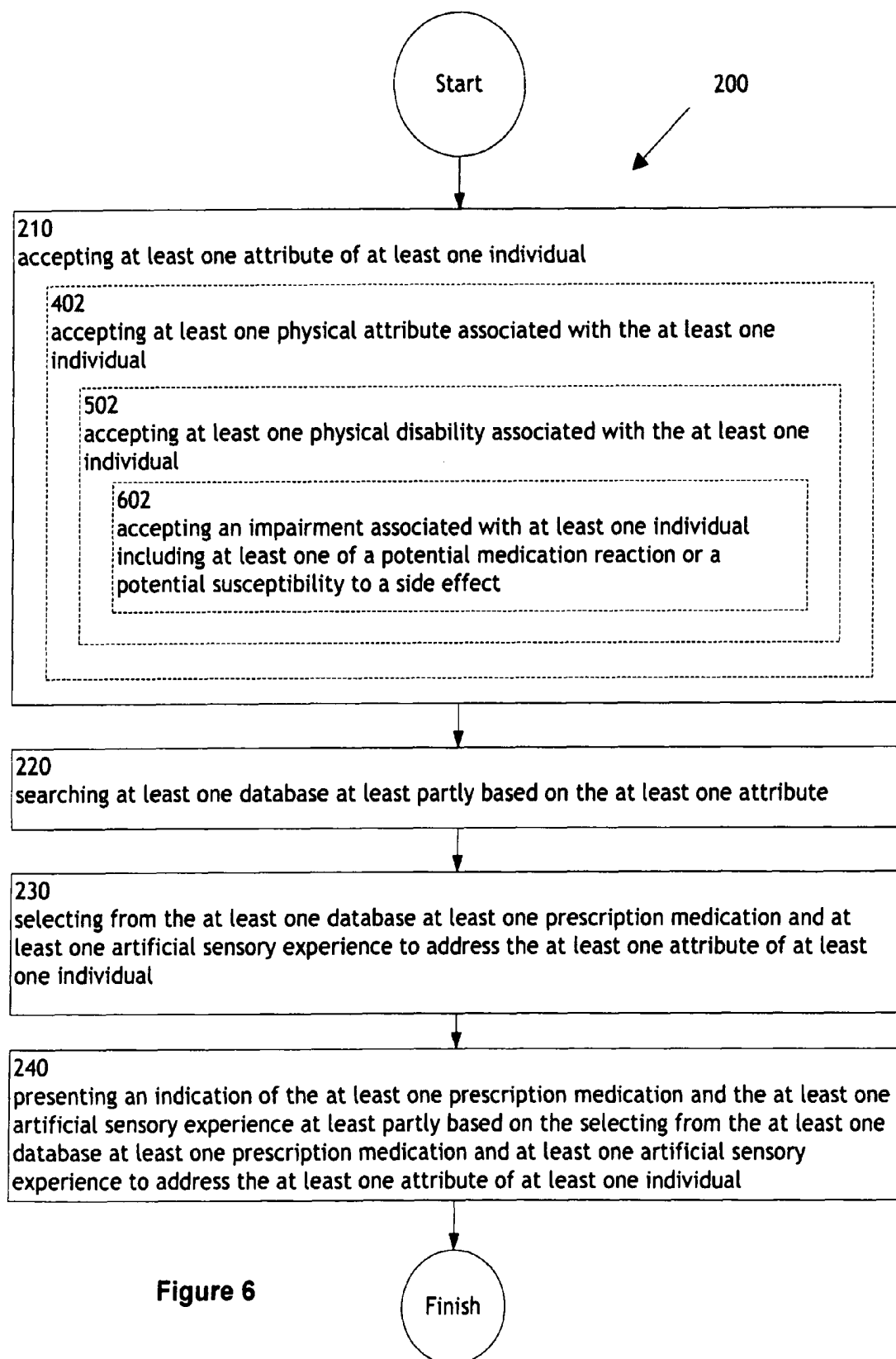
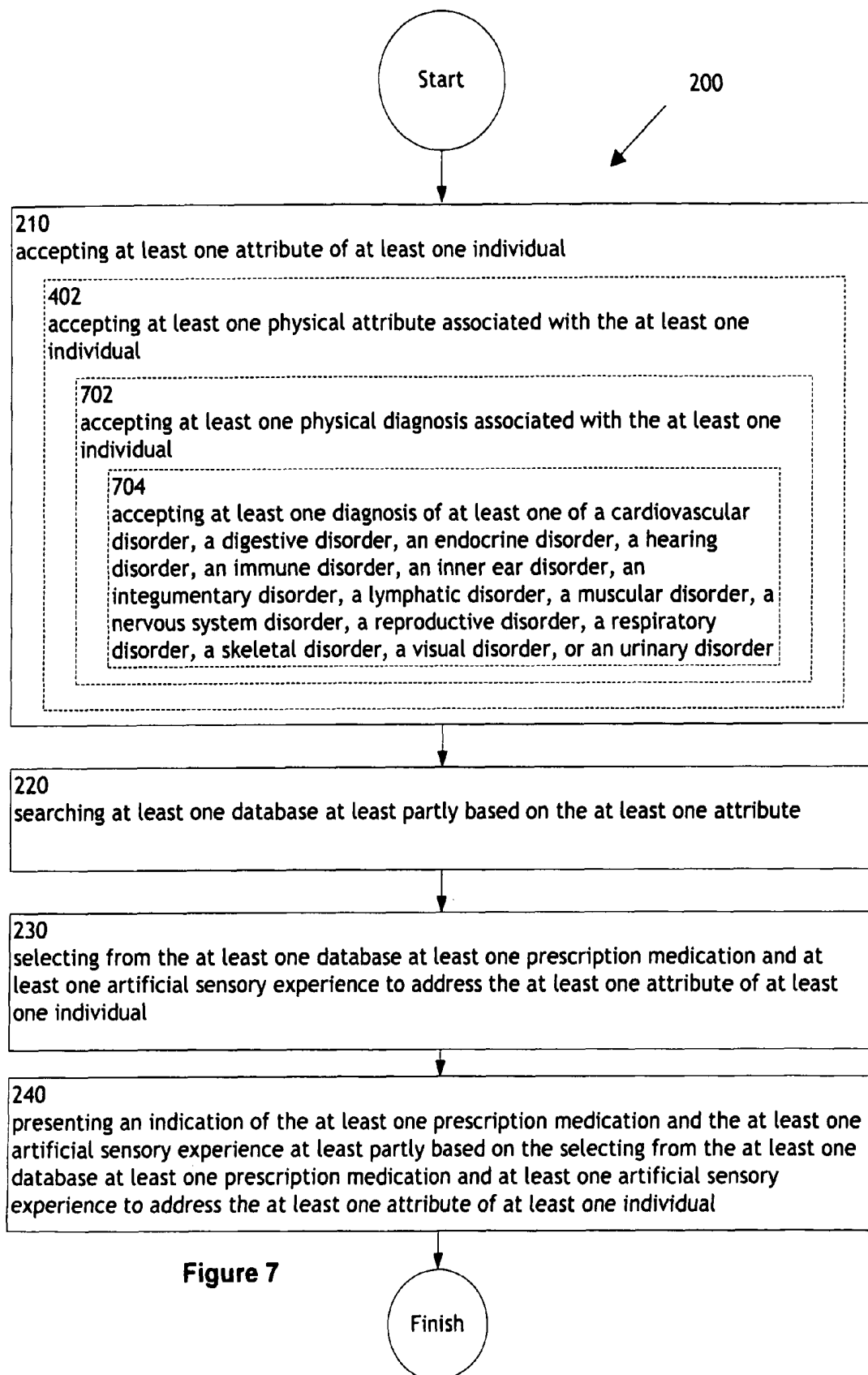
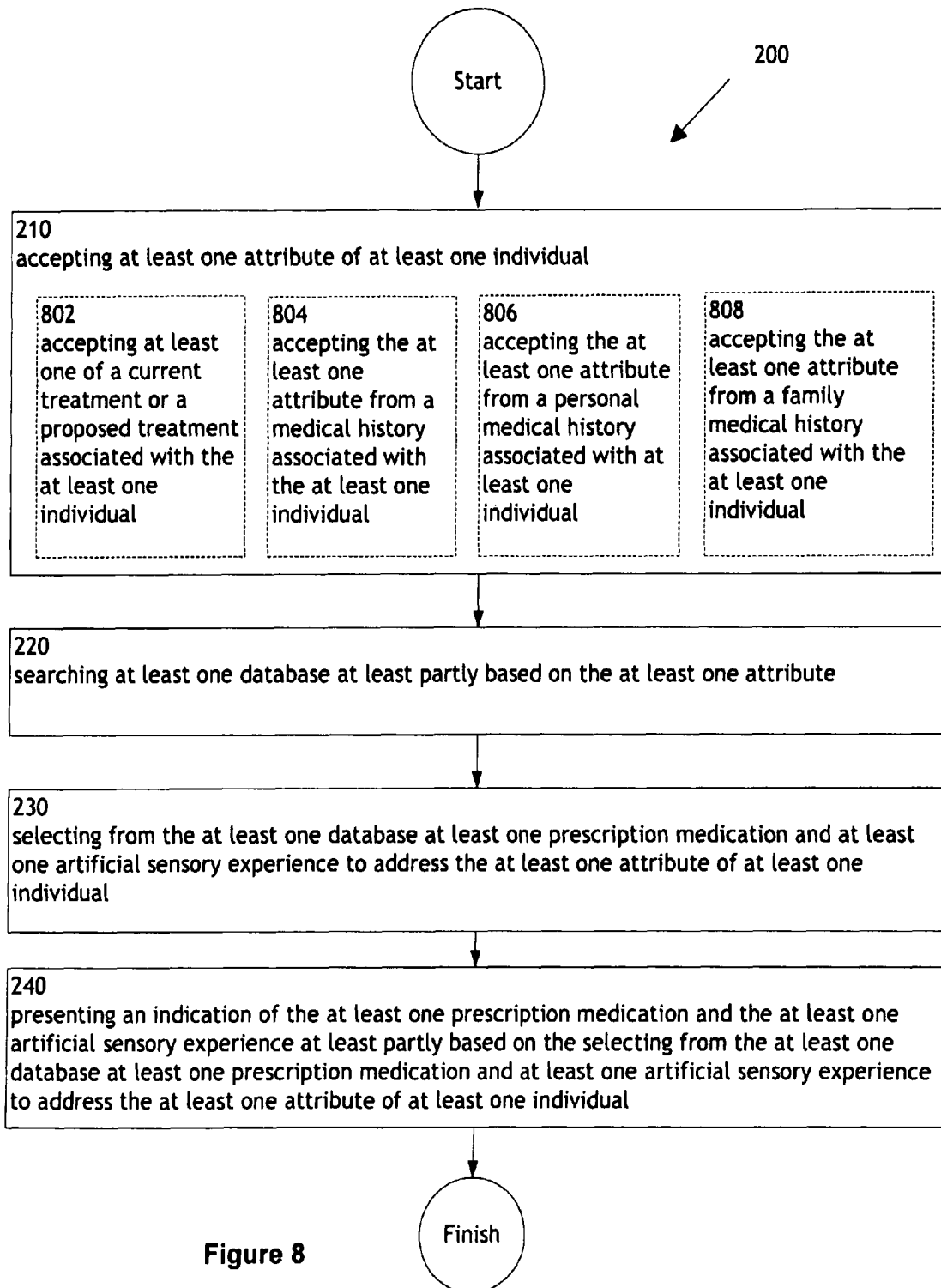


Figure 6





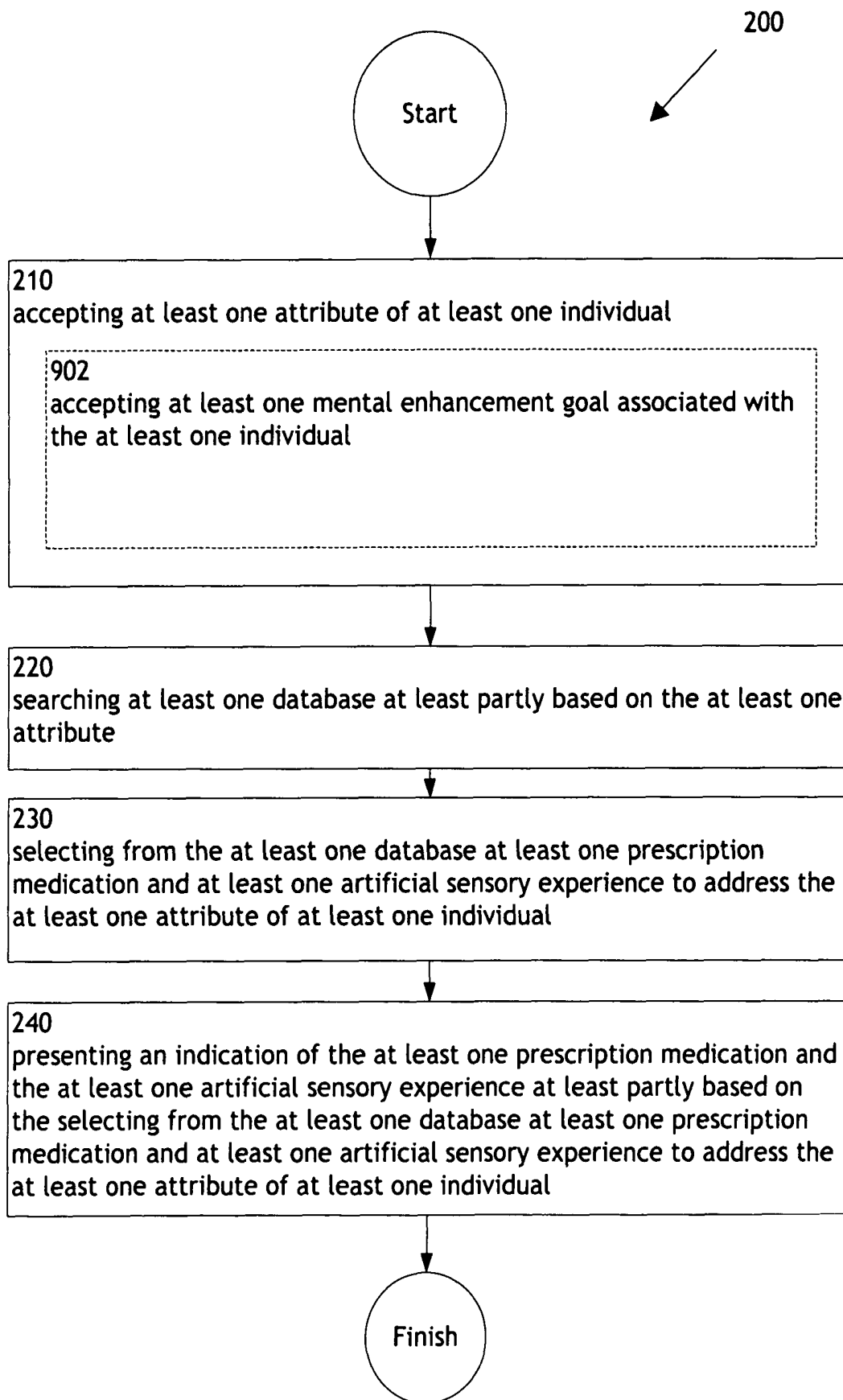


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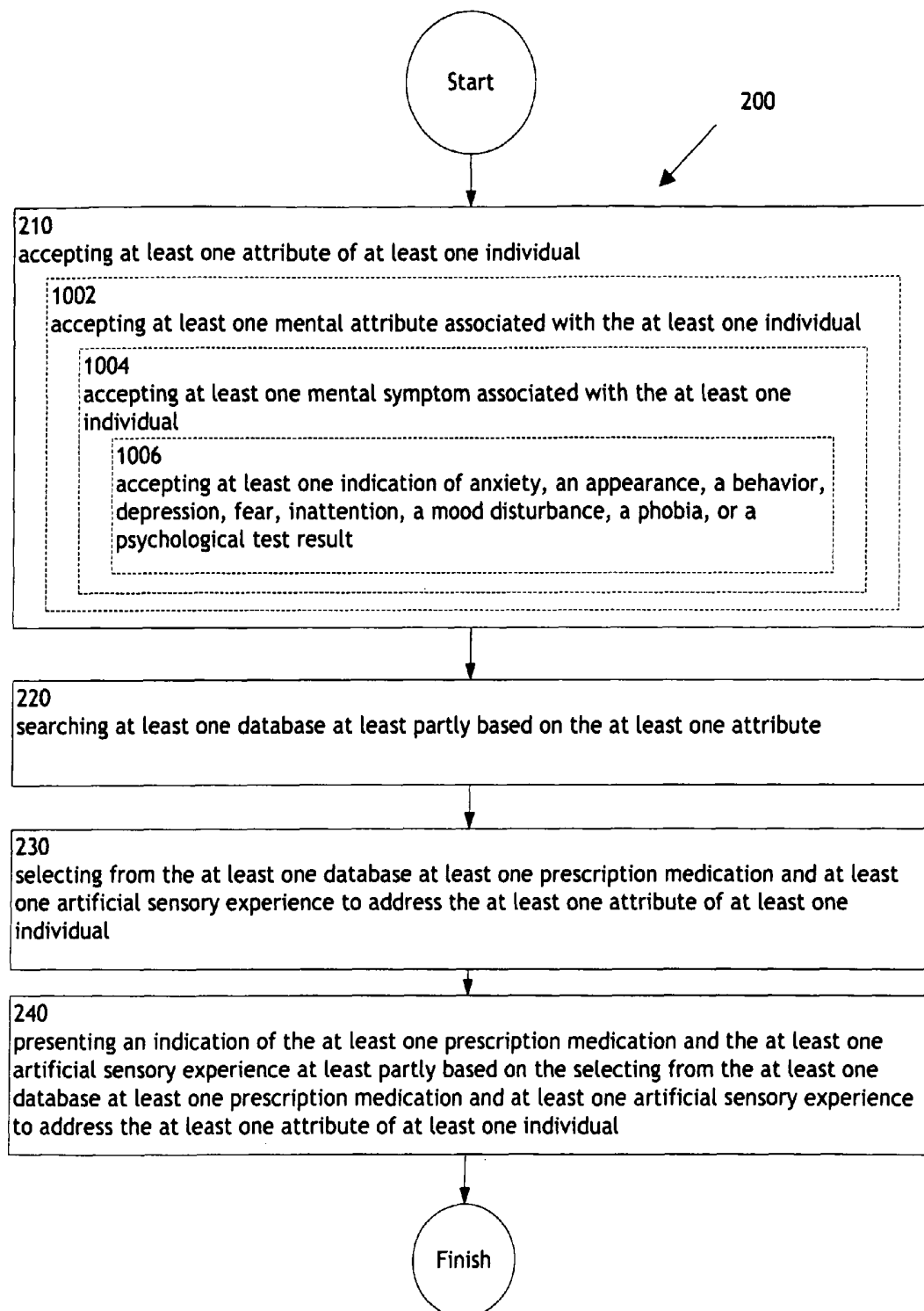


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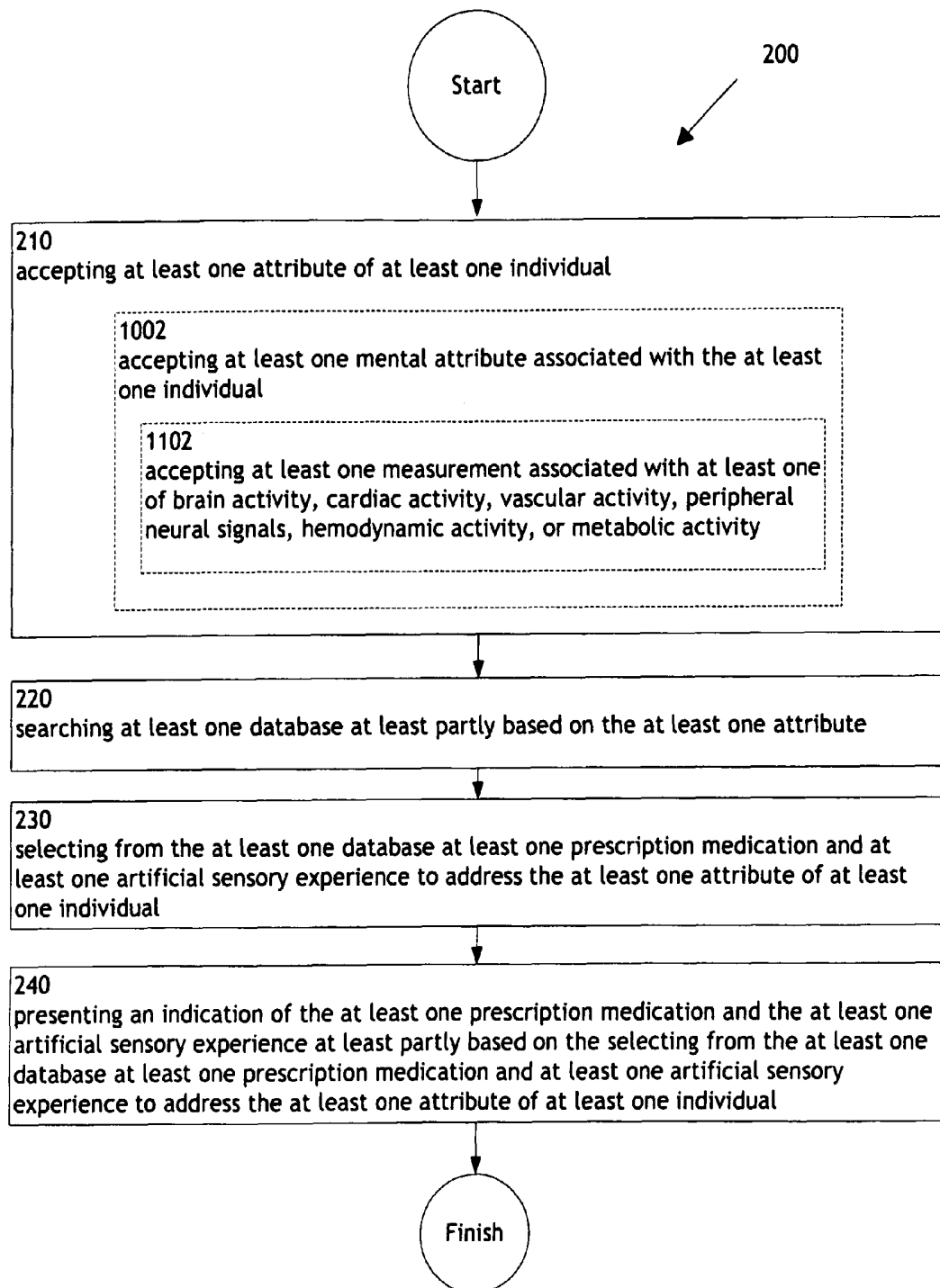


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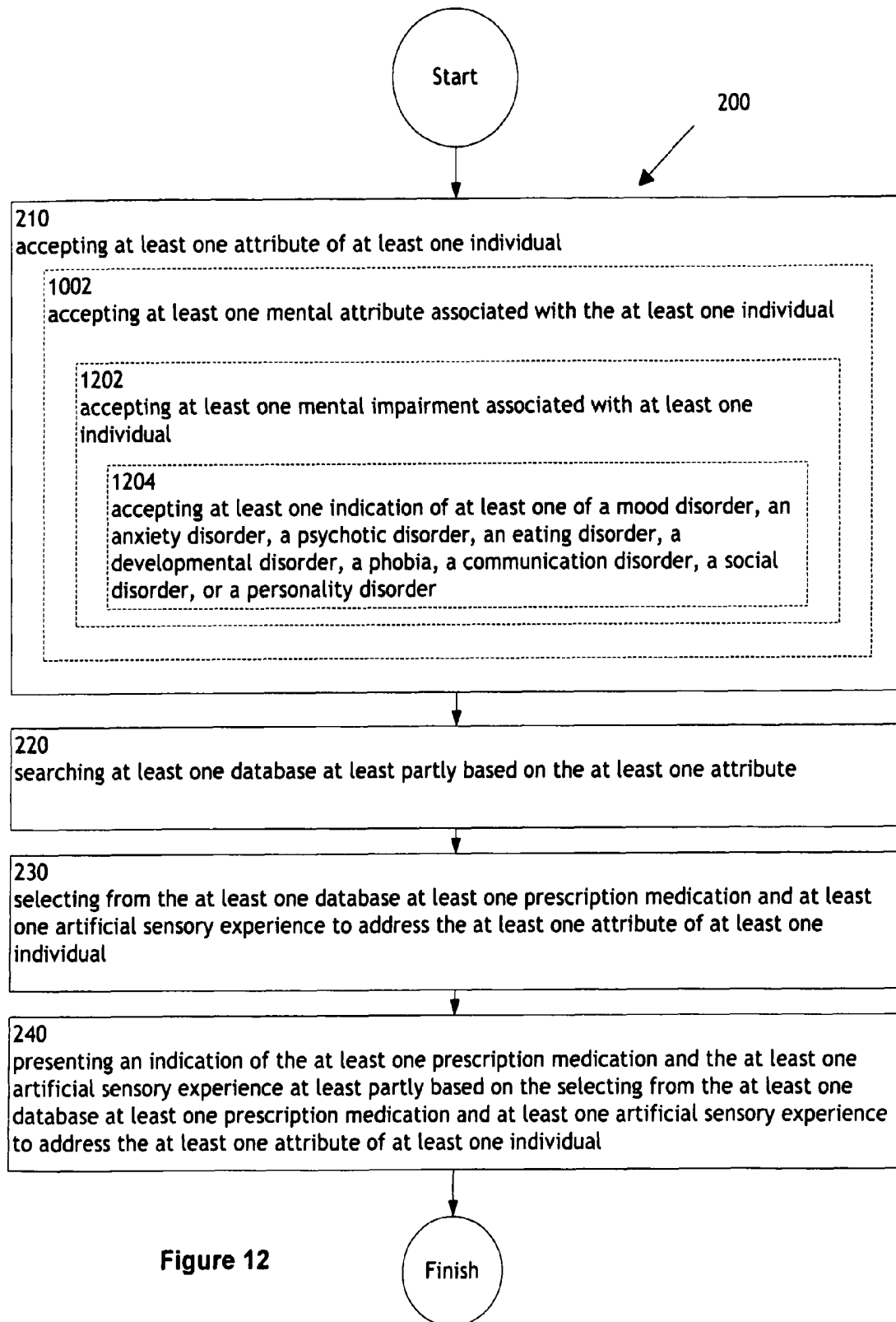


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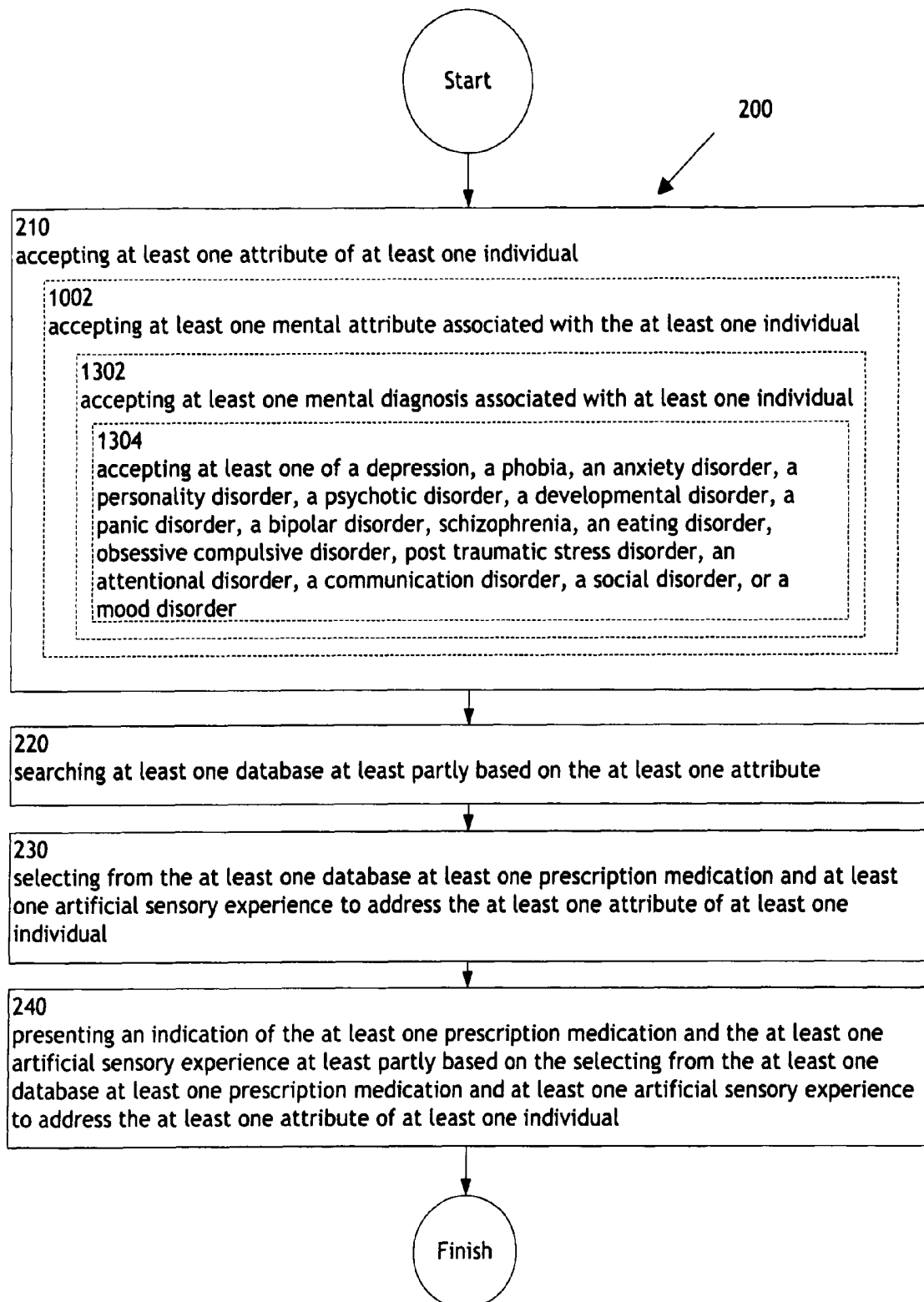


Figure 13

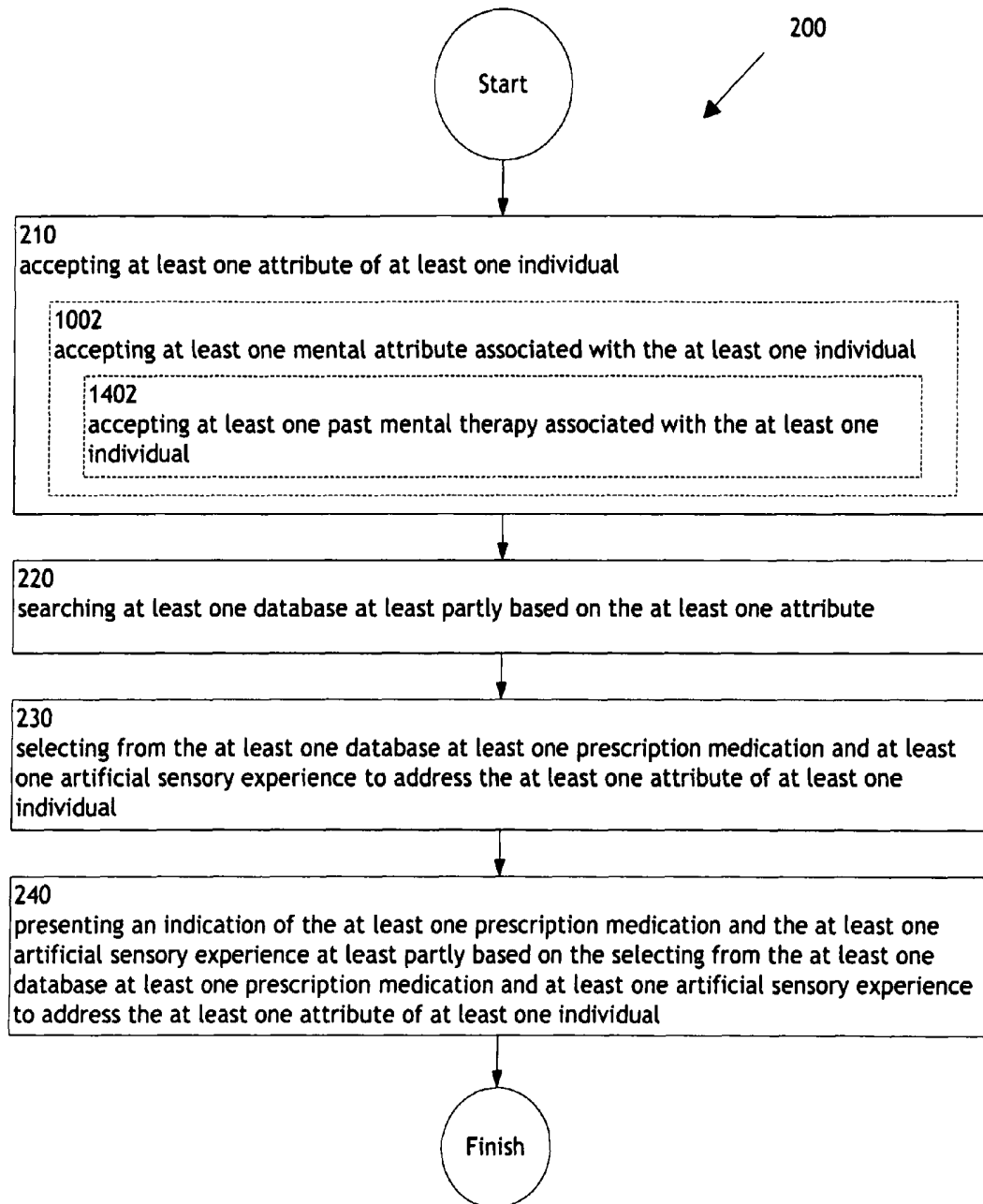
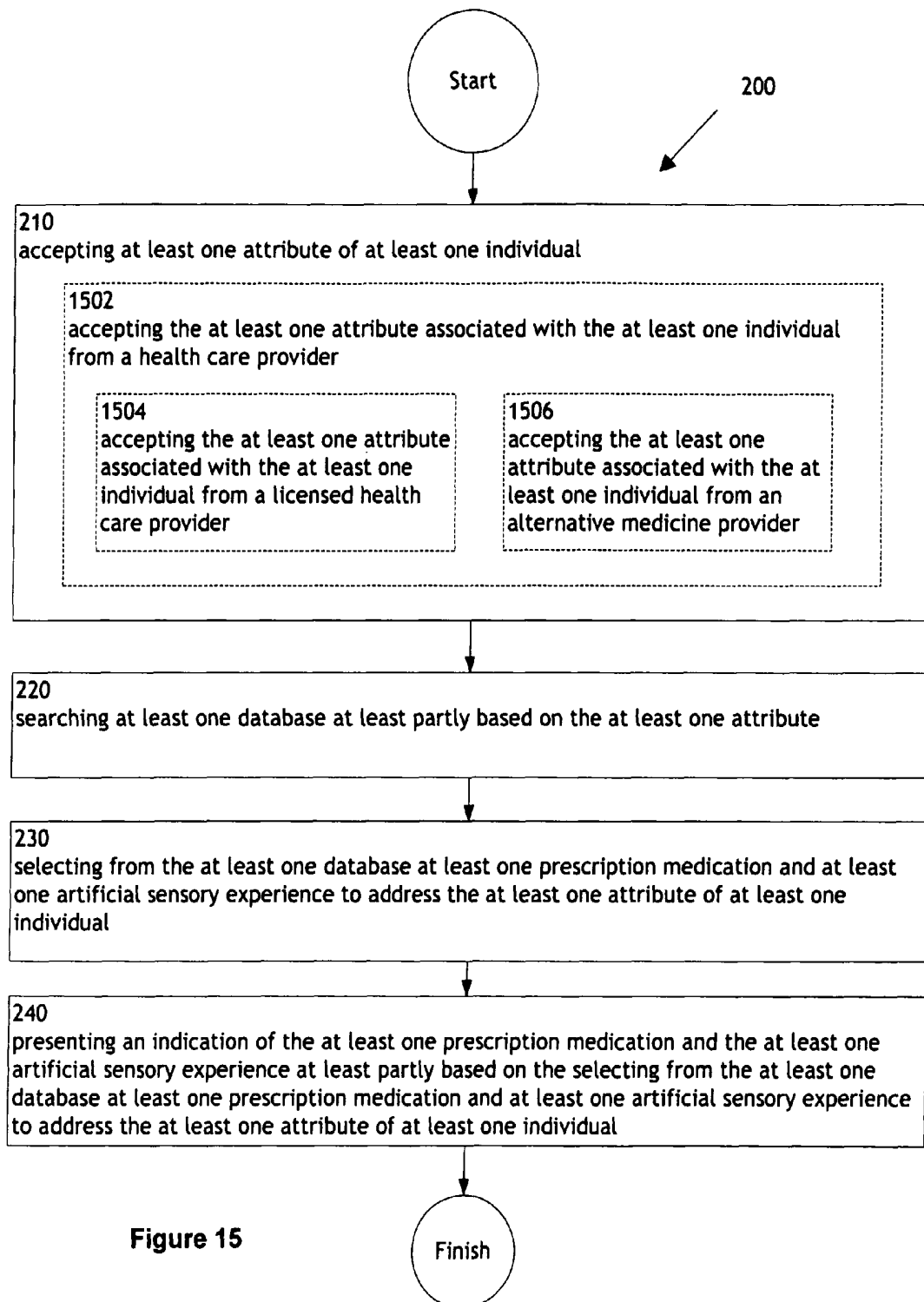


Figure 14



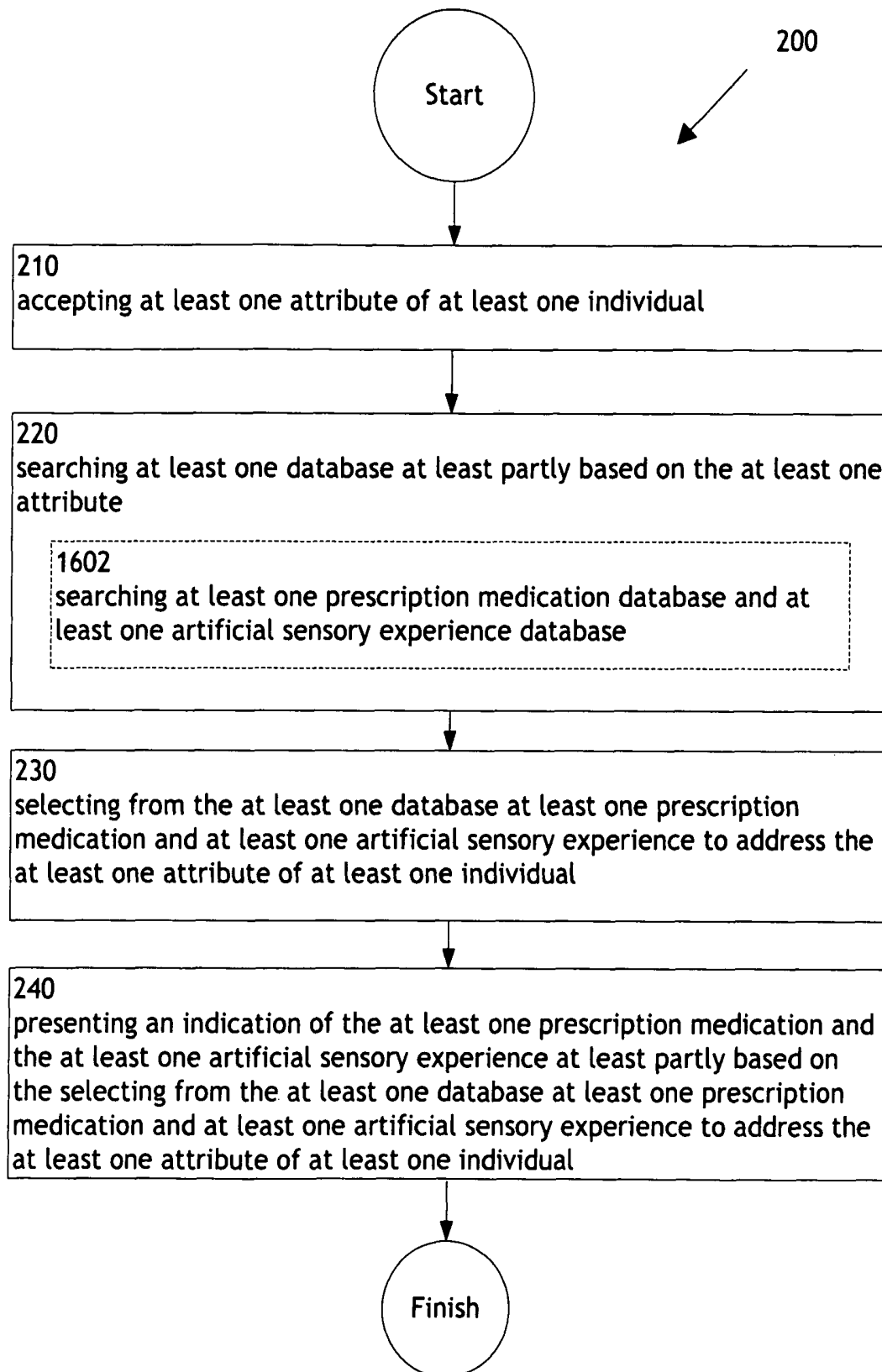


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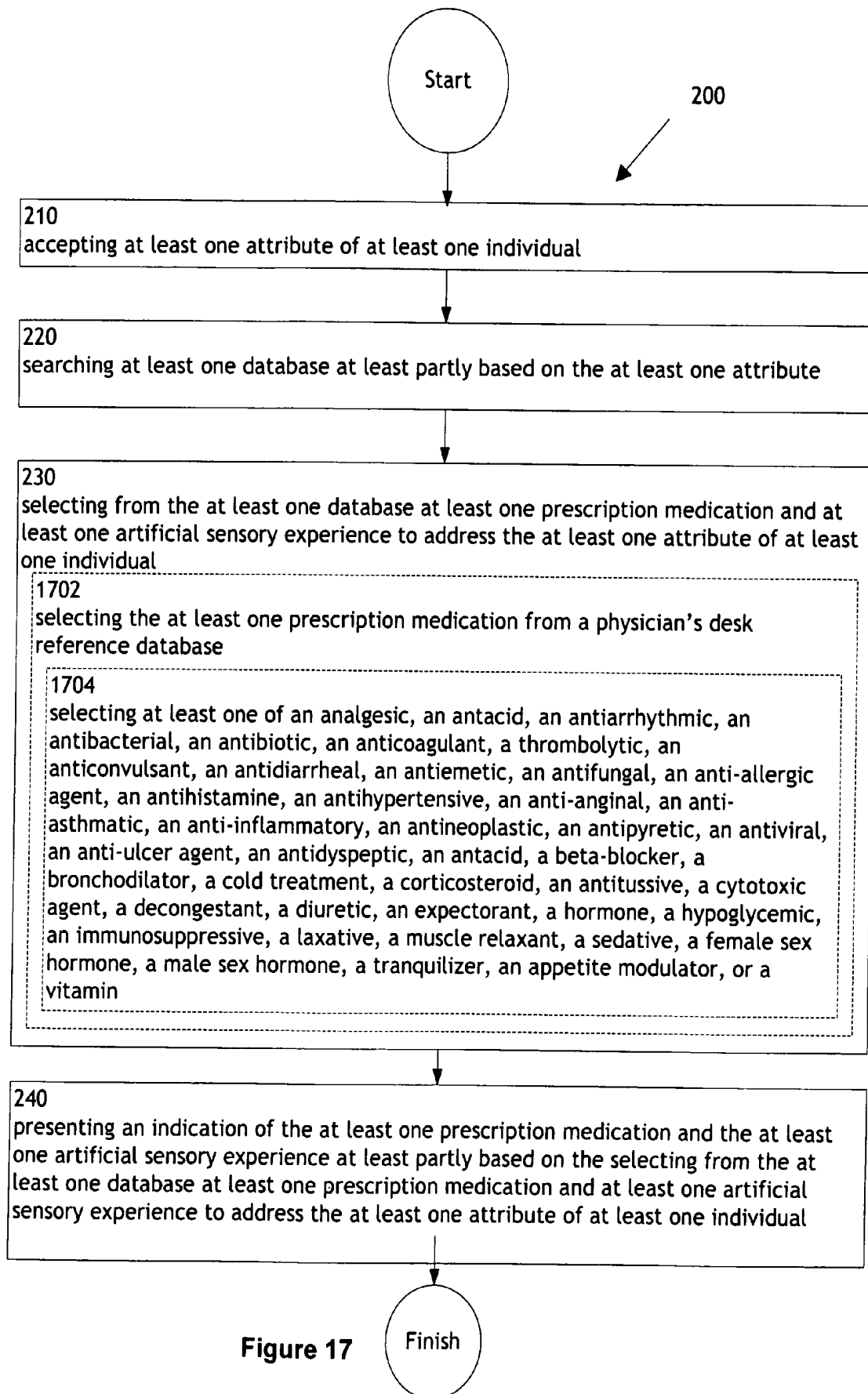


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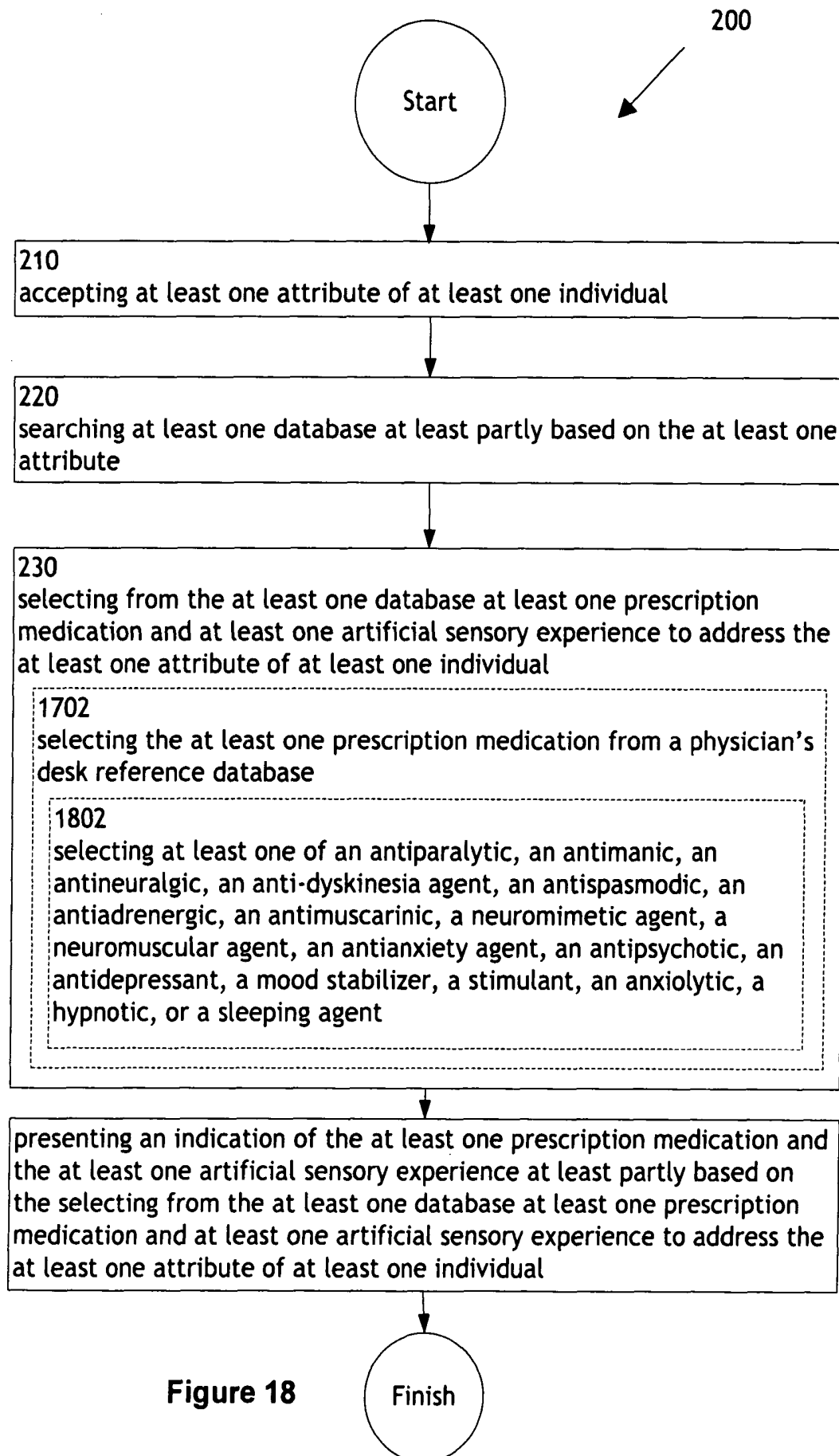


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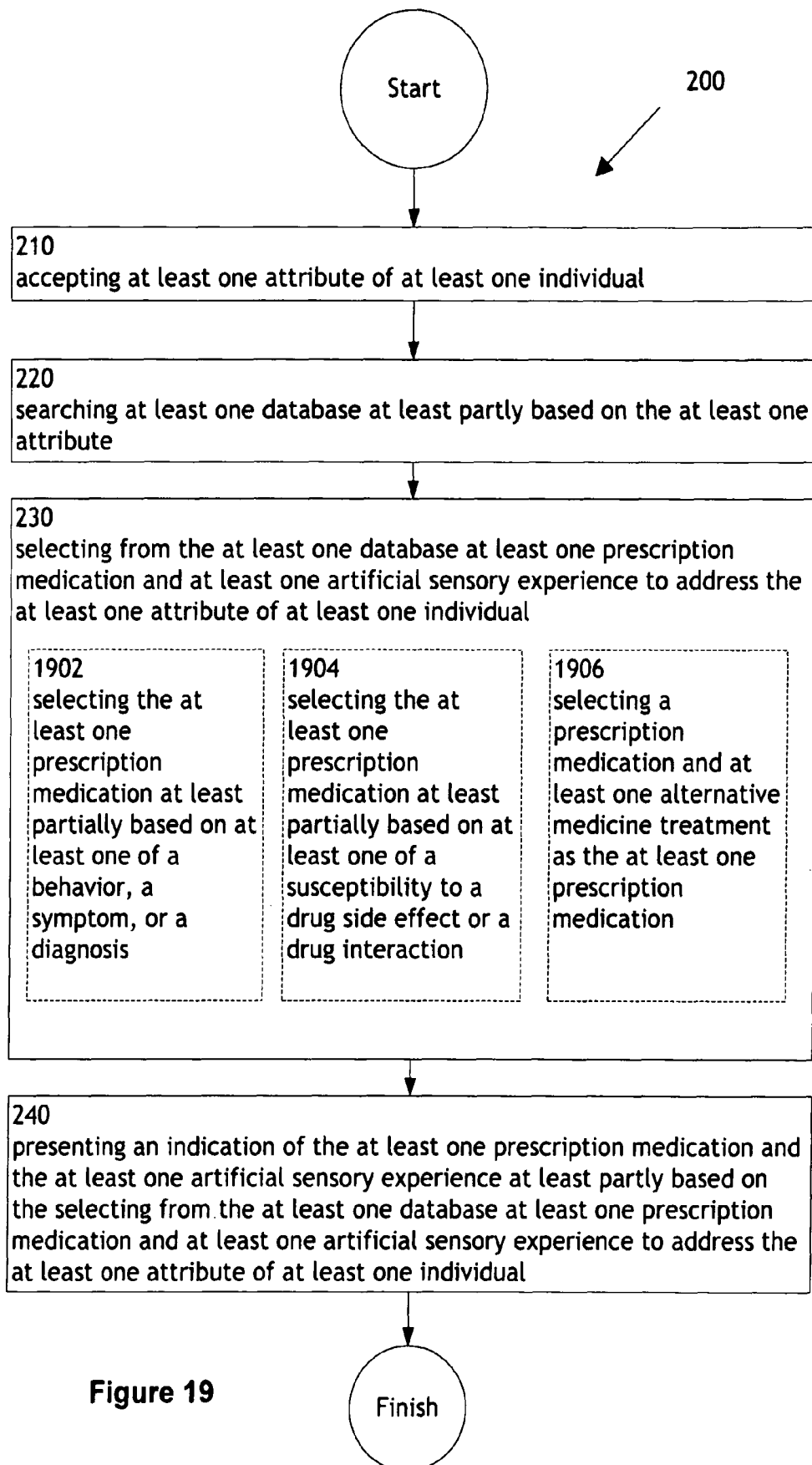


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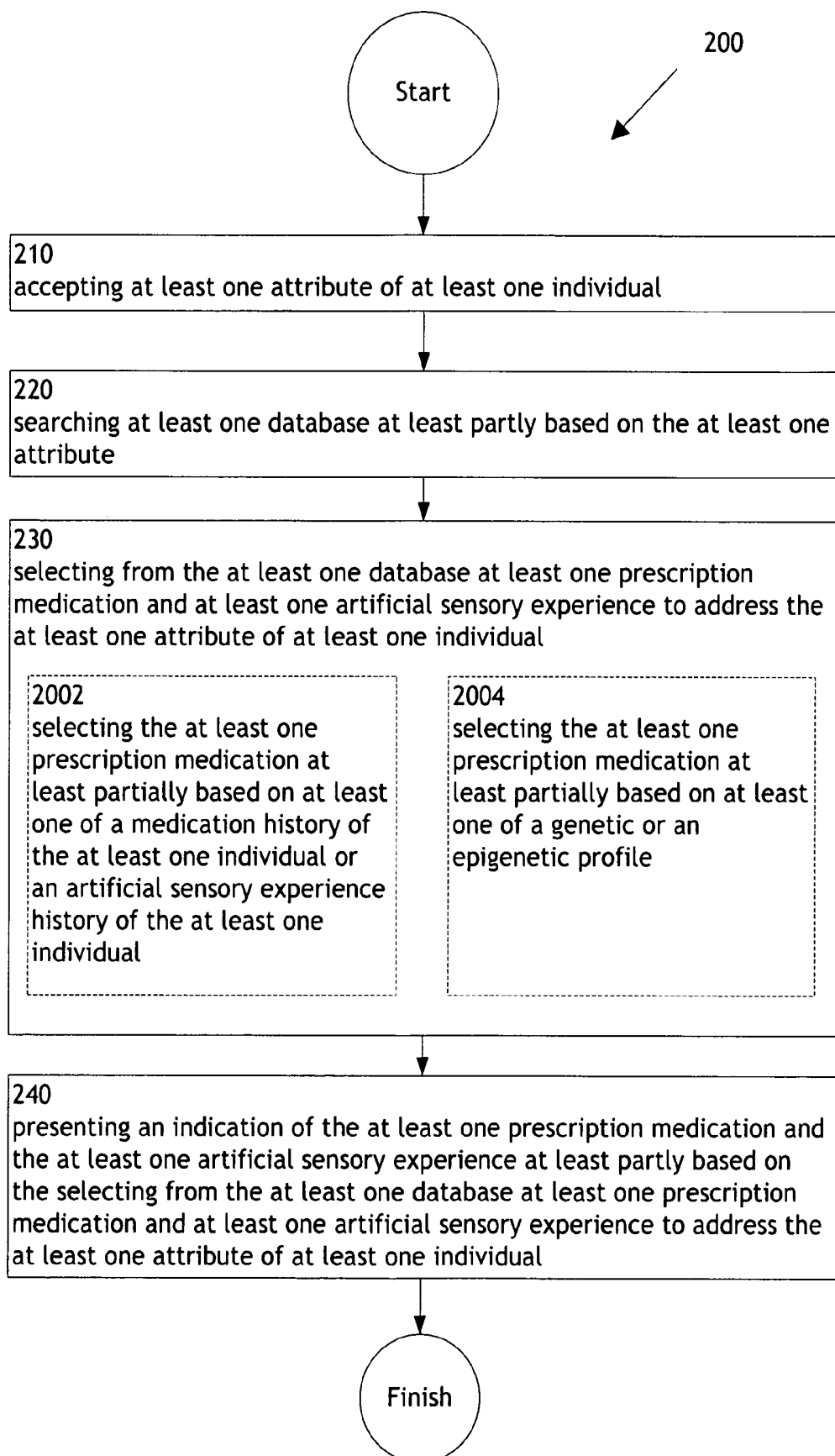


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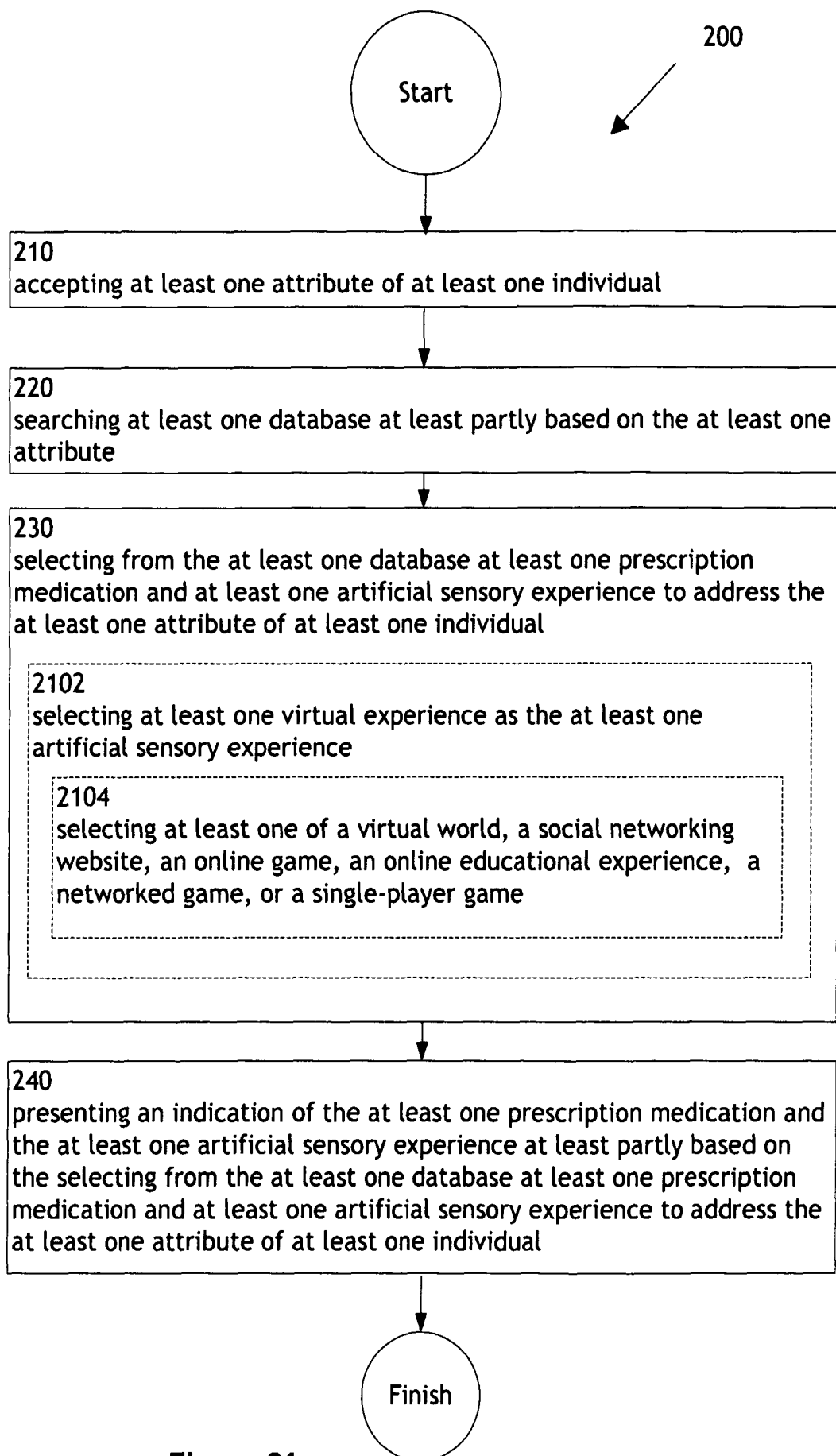


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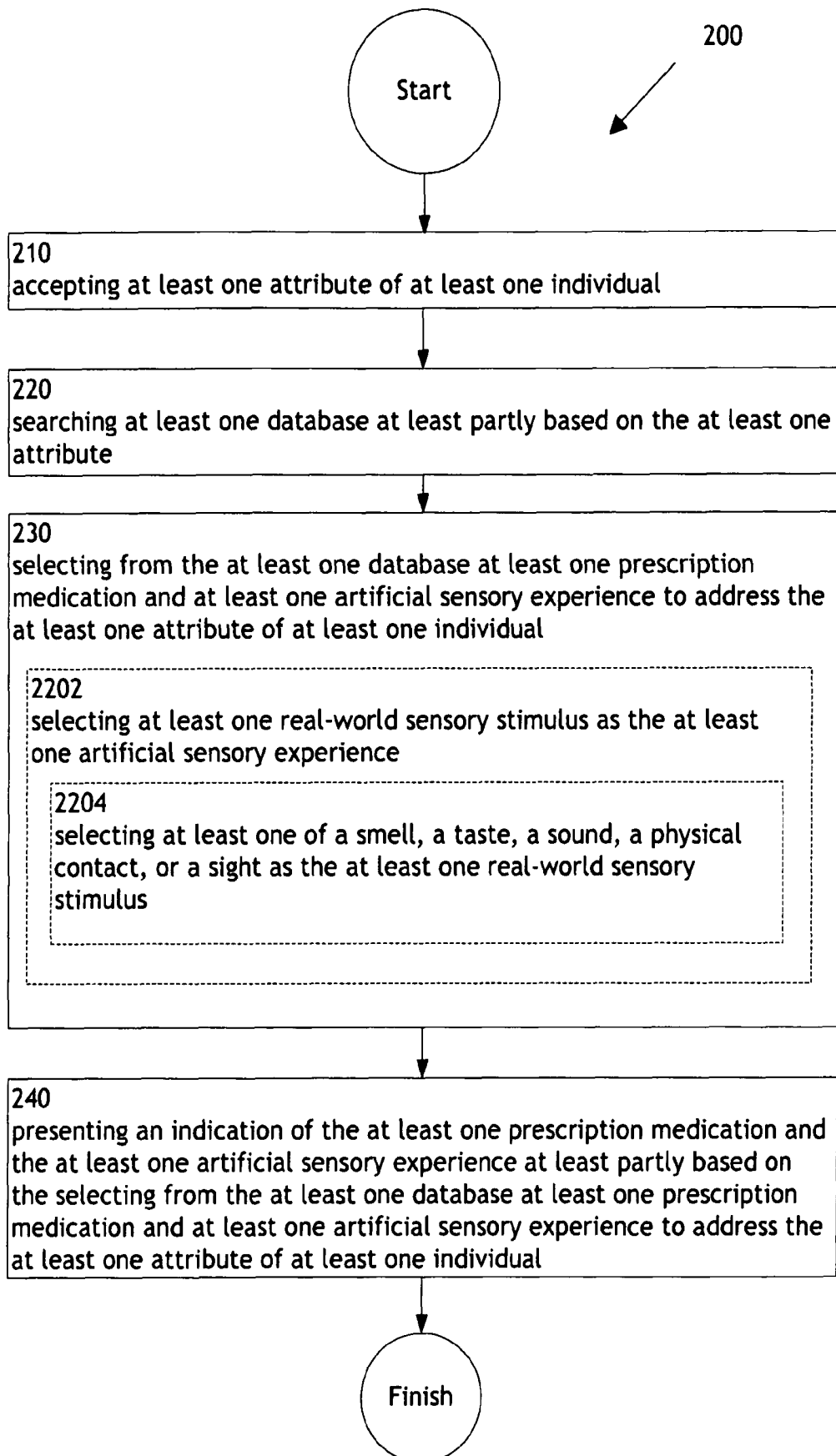


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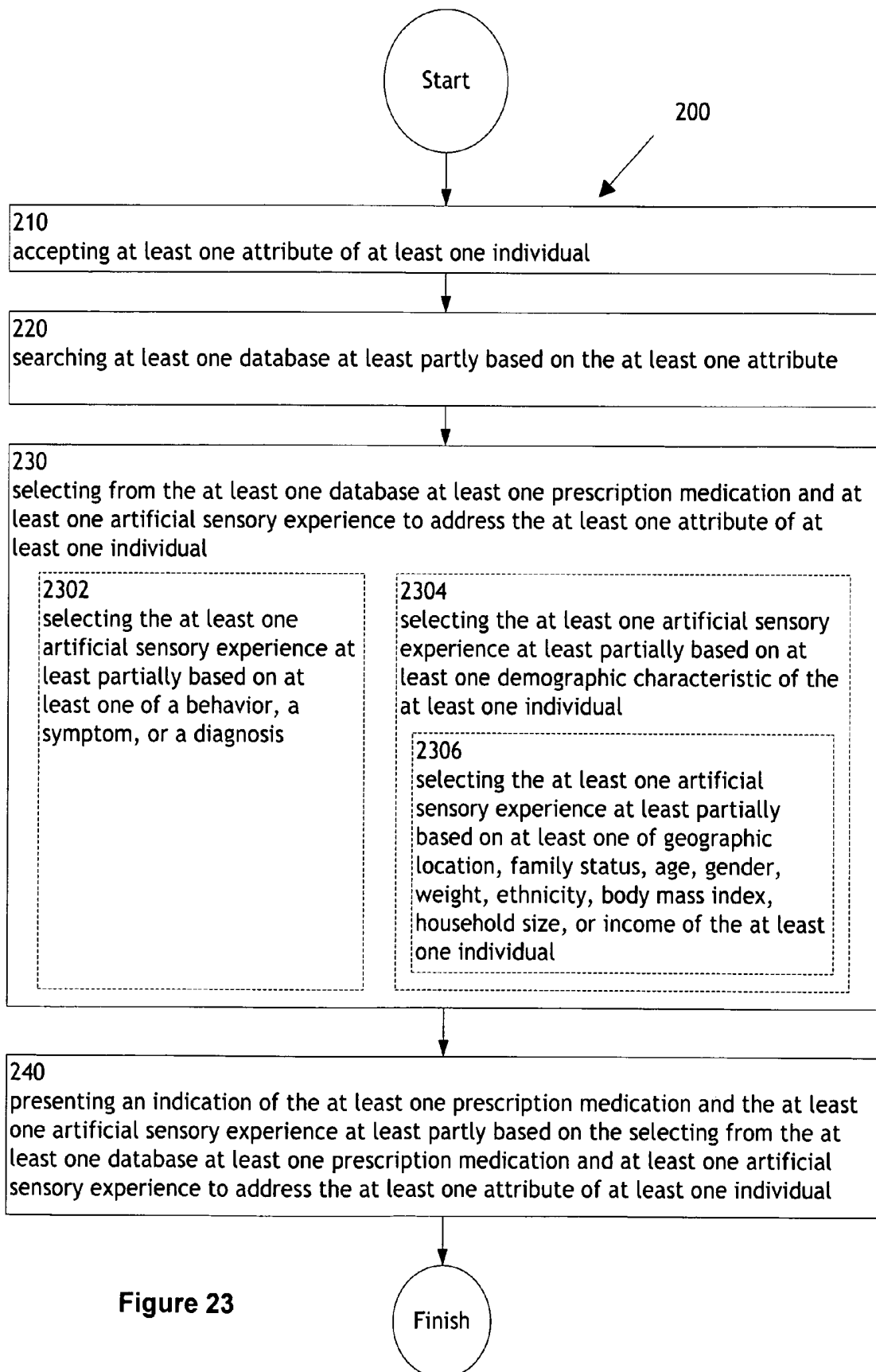


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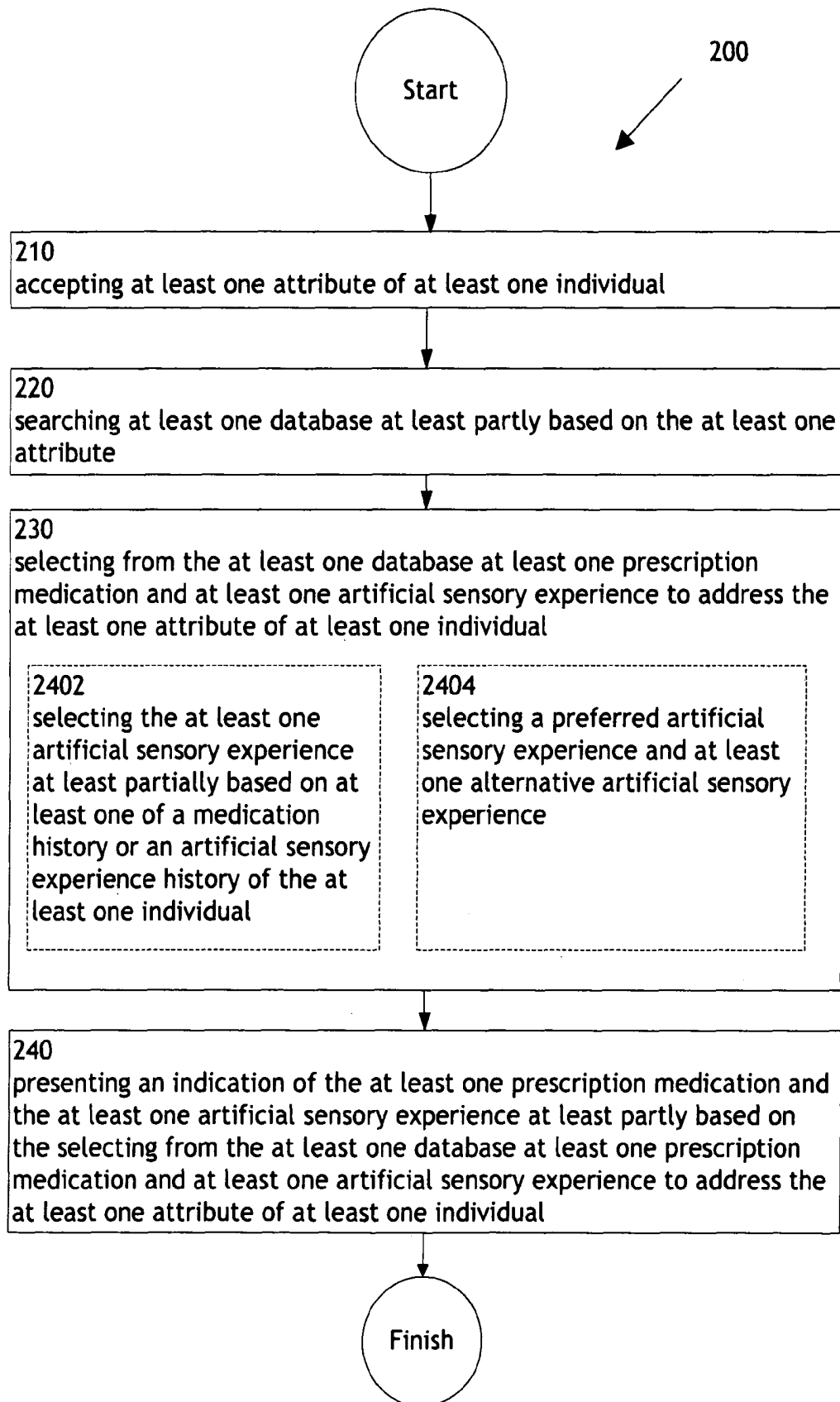
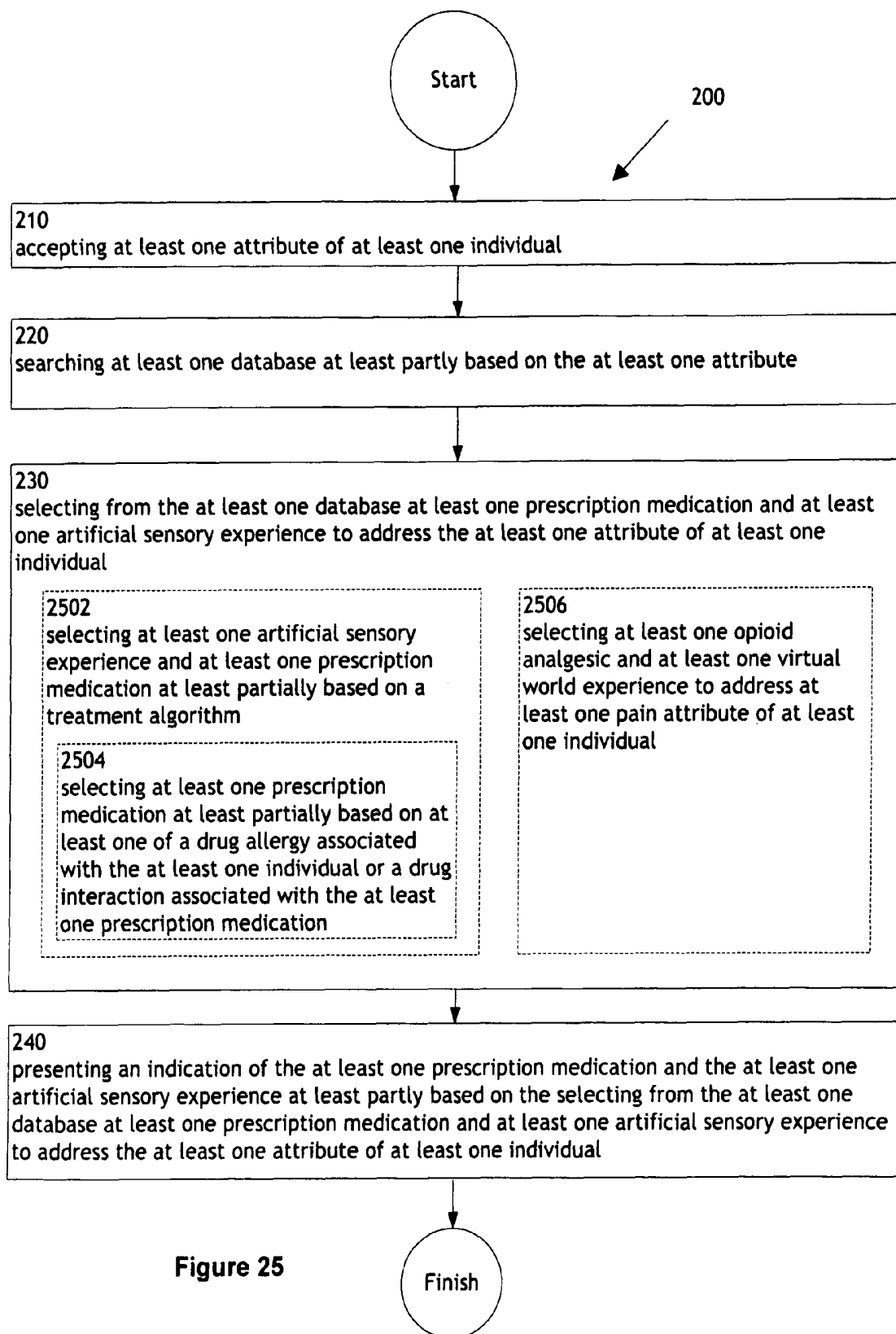


Figure 24



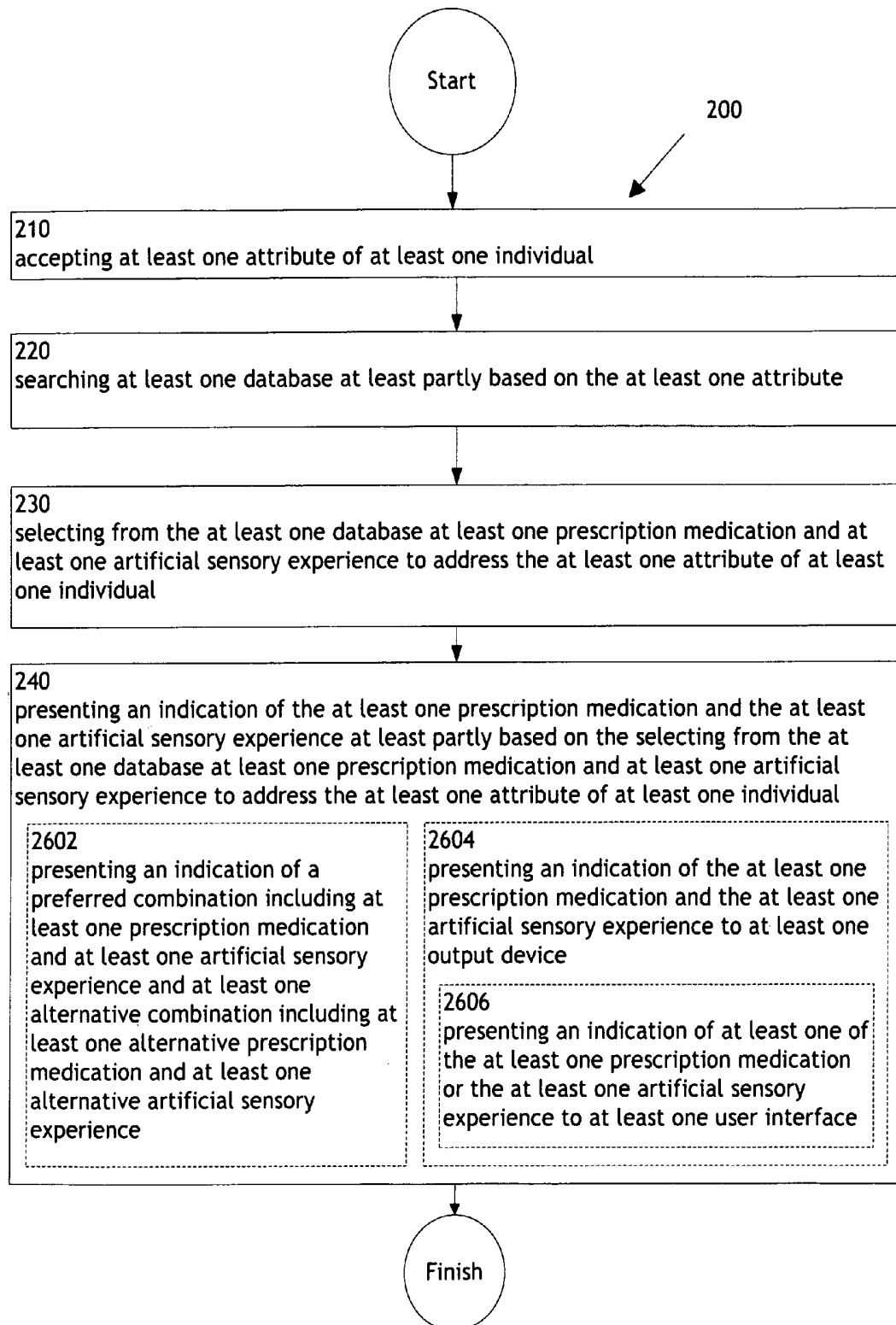
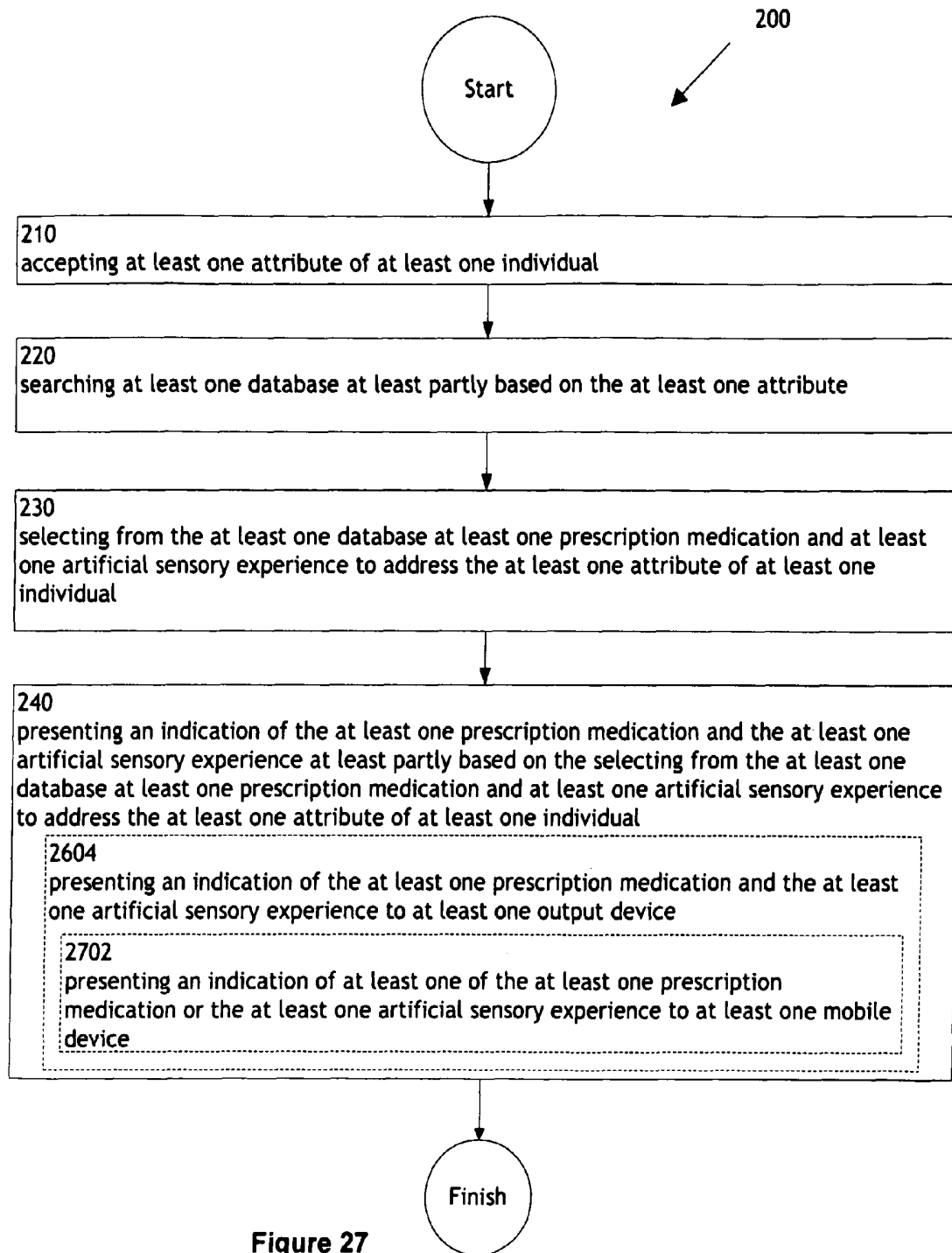


Figure 26



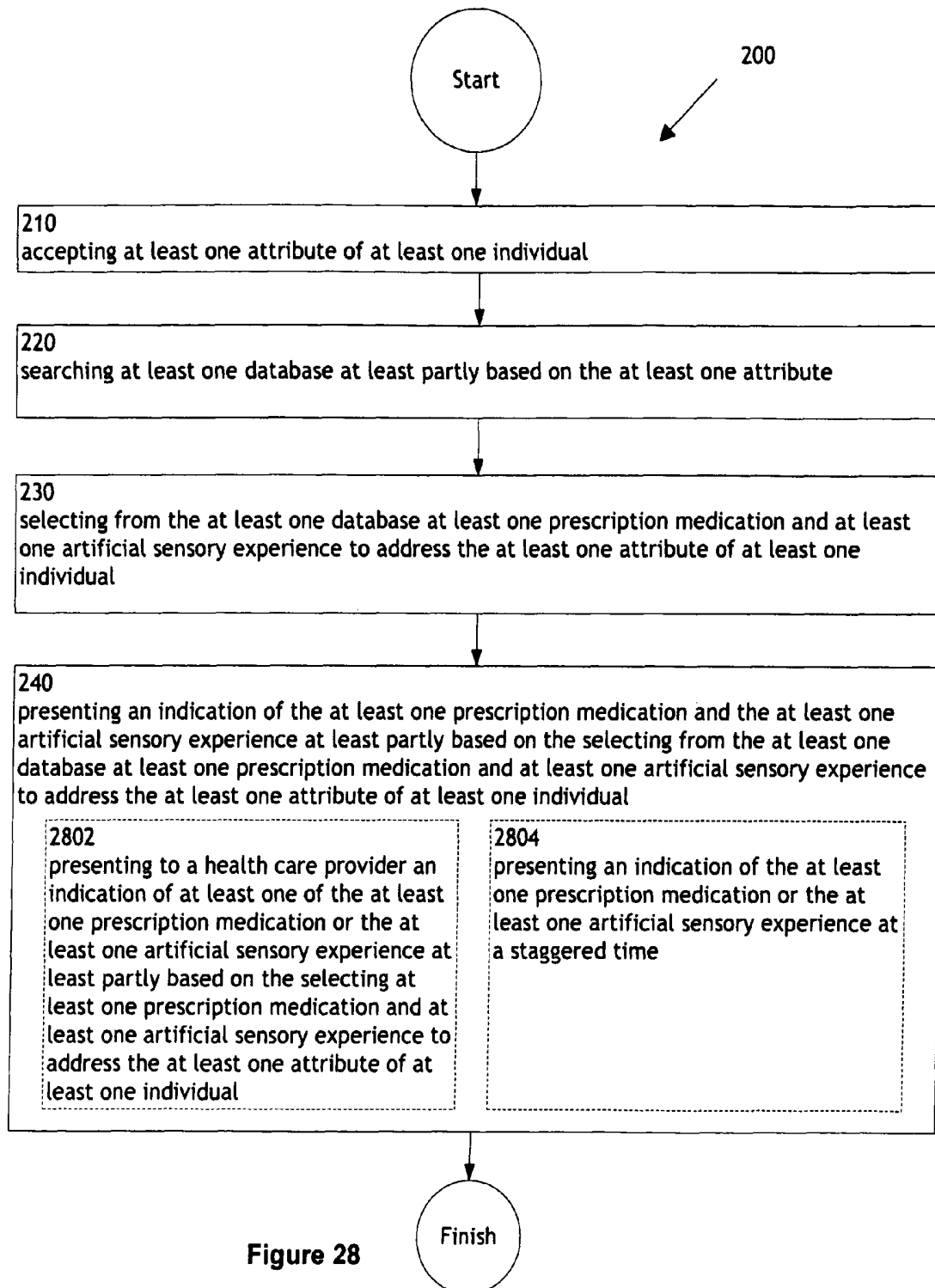


Figure 28

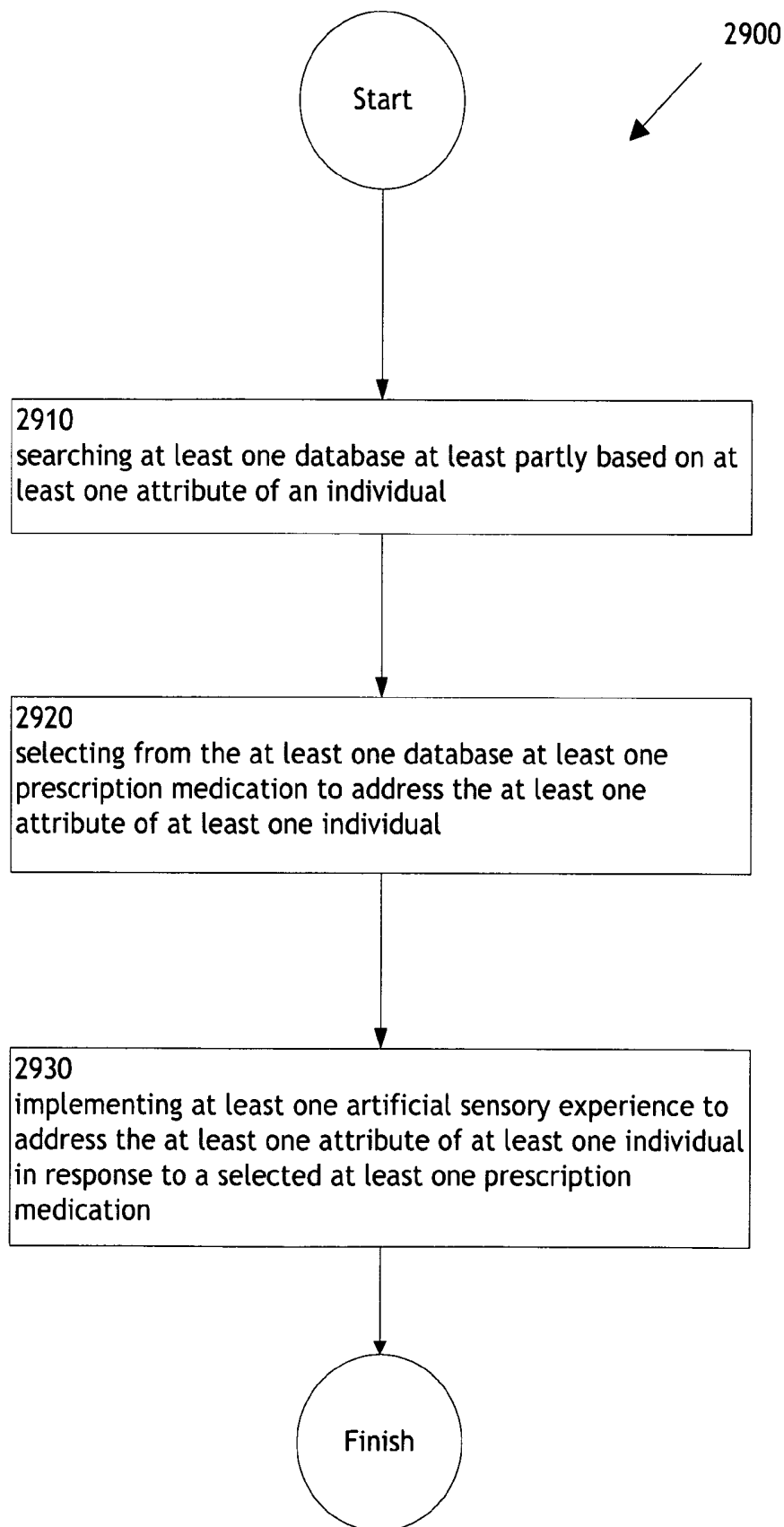


Figure 29

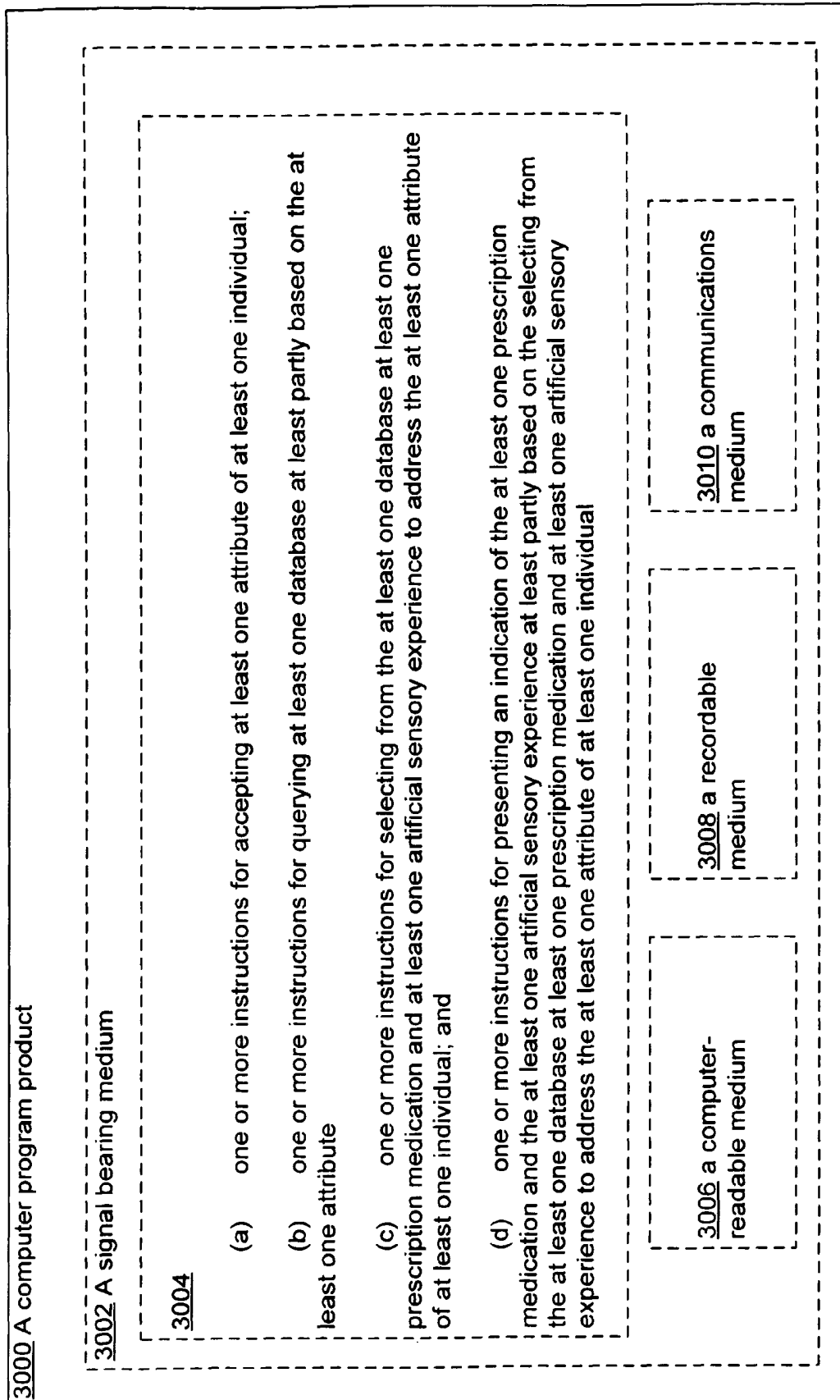


FIG. 30

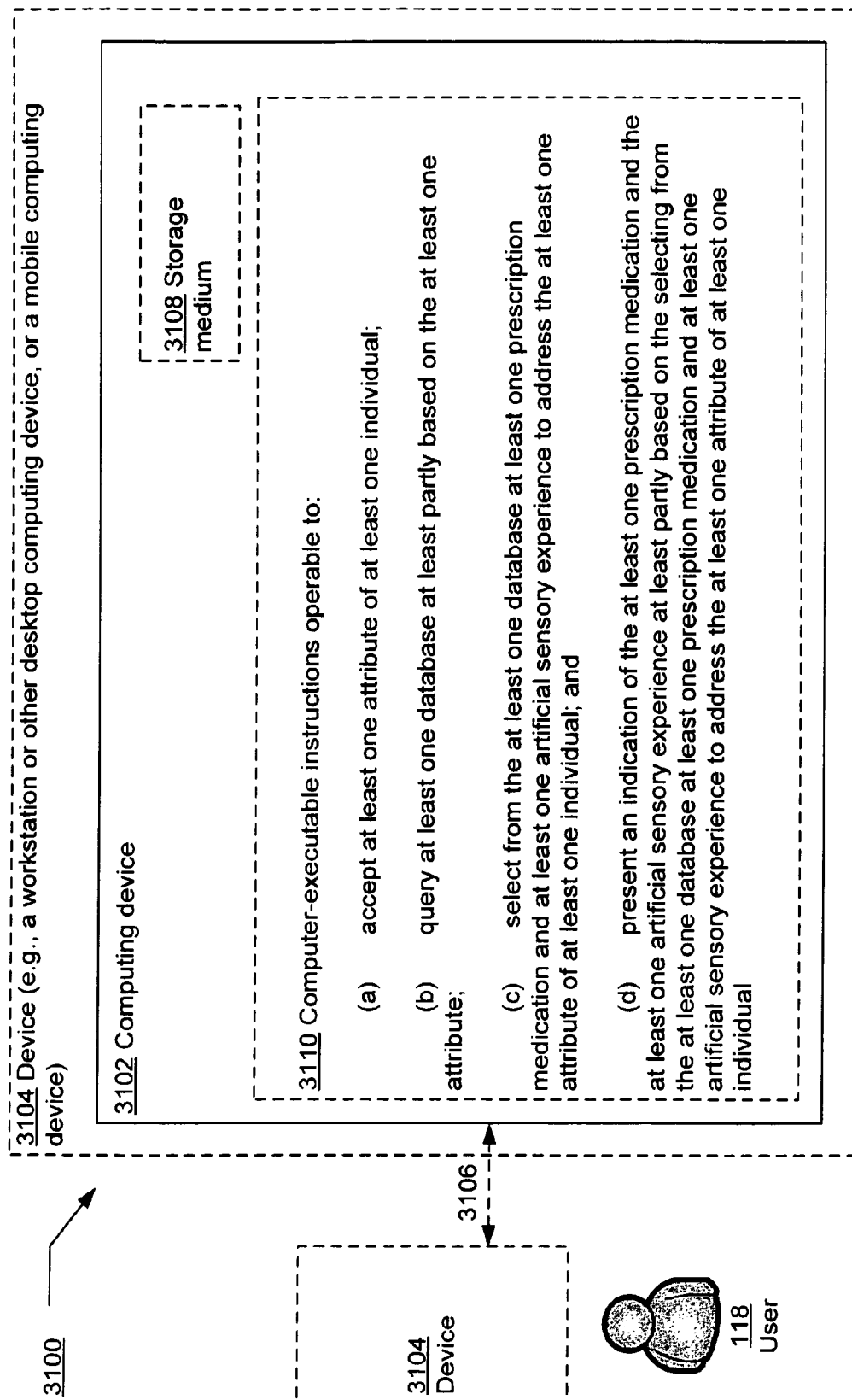


FIG. 31

COMBINATION TREATMENT SELECTION METHODS AND SYSTEMS

RELATED APPLICATIONS

For purposes of the USPTO extra-statutory requirements, the present application constitutes a continuation-in-part of United States Patent Application entitled COMBINATION TREATMENT SELECTION METHODS AND SYSTEMS, naming RODERICK A. HYDE; MURIEL Y. ISHIKAWA; ERIC C. LEUTHARDT; ROYCE A. LEVIEN; ROBERT W. LORD; MARK A. MALAMUD; ELIZABETH A. SWEENEY; LOWELL L. WOOD, JR.; AND VICTORIA Y.H. WOOD as inventors, filed Apr. 24, 2008, application Ser. No. 12/150,122, which is currently co-pending, or is an application of which a currently co-pending application is entitled to the benefit of the filing date.

For purposes of the USPTO extra-statutory requirements, the present application constitutes a continuation-in-part of United States Patent Application entitled COMBINATION TREATMENT MODIFICATION METHODS AND SYSTEMS, naming RODERICK A. HYDE; MURIEL Y. ISHIKAWA; ERIC C. LEUTHARDT; ROYCE A. LEVIEN; ROBERT W. LORD; MARK A. MALAMUD; ELIZABETH A. SWEENEY; LOWELL L. WOOD, JR.; AND VICTORIA Y.H. WOOD as inventors, filed May 13, 2008, application Ser. No. 12/152,266, which is currently co-pending, or is an application of which a currently co-pending application is entitled to the benefit of the filing date.

For purposes of the USPTO extra-statutory requirements, the present application constitutes a continuation-in-part of United States Patent Application entitled COMBINATION TREATMENT ALTERATION METHODS AND SYSTEMS, naming RODERICK A. HYDE; MURIEL Y. ISHIKAWA; ERIC C. LEUTHARDT; ROYCE A. LEVIEN; ROBERT W. LORD; MARK A. MALAMUD; ELIZABETH A. SWEENEY; LOWELL L. WOOD, JR.; AND VICTORIA Y.H. WOOD as inventors, filed May 21, 2008, application Ser. No. 12/154,275, which is currently co-pending, or is an application of which a currently co-pending application is entitled to the benefit of the filing date.

For purposes of the USPTO extra-statutory requirements, the present application constitutes a continuation-in-part of United States Patent Application entitled COMBINATION THERAPEUTIC PRODUCTS AND SYSTEMS, naming RODERICK A. HYDE; MURIEL Y. ISHIKAWA; ERIC C. LEUTHARDT; ROYCE A. LEVIEN; ROBERT W. LORD; MARK A. MALAMUD; ELIZABETH A. SWEENEY; LOWELL L. WOOD, JR.; AND VICTORIA Y.H. WOOD as inventors, filed May 30, 2008, application Ser. No. 12/156,440, which is currently co-pending, or is an application of which a currently co-pending application is entitled to the benefit of the filing date.

For purposes of the USPTO extra-statutory requirements, the present application constitutes a continuation-in-part of United States Patent Application entitled SIDE EFFECT AMELIORATING COMBINATION THERAPEUTIC PRODUCTS AND SYSTEMS, naming RODERICK A. HYDE; MURIEL Y. ISHIKAWA; ERIC C. LEUTHARDT; ROYCE A. LEVIEN; ROBERT W. LORD; MARK A. MALAMUD; ELIZABETH A. SWEENEY; LOWELL L. WOOD, JR.; AND VICTORIA Y.H. WOOD as inventors, filed Jun. 5, 2008, application Ser. No. 12/156,949, which is currently co-pending, or is an application of which a currently co-pending application is entitled to the benefit of the filing date.

For purposes of the USPTO extra-statutory requirements, the present application constitutes a continuation-in-part of United States Patent Application entitled COMBINATION TREATMENT MODIFICATION METHODS AND SYSTEMS, naming RODERICK A. HYDE; MURIEL Y. ISHIKAWA; ERIC C. LEUTHARDT; ROYCE A. LEVIEN; ROBERT W. LORD; MARK A. MALAMUD; ELIZABETH A. SWEENEY; LOWELL L. WOOD, JR.; AND VICTORIA Y.H. WOOD as inventors, filed Jun. 6, 2008, application Ser. No. 12/157,160, which is currently co-pending, or is an application of which a currently co-pending application is entitled to the benefit of the filing date.

TECHNICAL FIELD

This description relates to methods and systems for combining medicine with artificial sensory experience.

SUMMARY

In one aspect, a method includes but is not limited to accepting at least one attribute of at least one individual, querying at least one database at least partly based on the at least one attribute, selecting from the at least one database at least one prescription medication and at least one artificial sensory experience to address the at least one attribute of at least one individual, and presenting an indication of the at least one prescription medication and the at least one artificial sensory experience at least partly based on the selecting from the at least one database at least one prescription medication and at least one artificial sensory experience to address the at least one attribute of at least one individual. In addition to the foregoing, other method aspects are described in the claims, drawings, and text forming a part of the present disclosure.

In one or more various aspects, related systems include but are not limited to circuitry and/or programming for effecting the herein-referenced method aspects; the circuitry and/or programming can be virtually any combination of hardware, software, and/or firmware configured to effect the herein-referenced method aspects depending upon the design choices of the system designer.

In one aspect, a method includes but is not limited to querying at least one database at least partly based on at least one attribute of an individual, selecting from the at least one database at least one prescription medication to address the at least one attribute of at least one individual, and implementing at least one artificial sensory experience to address the at least one attribute of at least one individual in response to a selected at least one prescription medication. In addition to the foregoing, other method aspects are described in the claims, drawings, and text forming a part of the present disclosure.

In one or more various aspects, related systems include but are not limited to circuitry and/or programming for effecting the herein-referenced method aspects; the circuitry and/or programming can be virtually any combination of hardware, software, and/or firmware configured to effect the herein-referenced method aspects depending upon the design choices of the system designer.

In one aspect, a system includes but is not limited to means for accepting at least one attribute of at least one individual, means for querying at least one database at least partly based on the at least one attribute, means for selecting from the at least one database at least one prescription medication and at least one artificial sensory experience to address the at least one attribute of at least one individual,

and means for presenting an indication of the at least one prescription medication and the at least one artificial sensory experience at least partly based on the selecting from the at least one database at least one prescription medication and at least one artificial sensory experience to address the at least one attribute of at least one individual. In addition to the foregoing, other method aspects are described in the claims, drawings, and text forming a part of the present disclosure.

In one aspect, a system includes but is not limited to means for querying at least one database at least partly based on at least one attribute of an individual, means for selecting from the at least one database at least one prescription medication to address the at least one attribute of at least one individual, and means for implementing at least one artificial sensory experience to address the at least one attribute of at least one individual in response; to a selected at least one prescription medication. In addition to the foregoing, other method aspects are described in the claims, drawings, and text forming a part of the present disclosure.

In one aspect, a system includes but is not limited to circuitry for accepting at least one attribute of at least one individual, circuitry for querying at least one database at least partly based on the at least one attribute, circuitry for selecting from the at least one database at least one prescription medication and at least one artificial sensory experience to address the at least one attribute of at least one individual, and circuitry for presenting an indication of the at least one prescription medication and the at least one artificial sensory experience at least partly based on the selecting from the at least one database at least one prescription medication and at least one artificial sensory experience to address the at least one attribute of at least one individual. In addition to the foregoing, other method aspects are described in the claims, drawings, and text forming a part of the present disclosure.

In one aspect, a computer program product includes but is not limited to a signal-bearing medium bearing one or more instructions for accepting at least one attribute of at least one individual; one or more instructions for querying at least one database at least partly based on the at least one attribute; one or more instructions for selecting from the at least one database at least one prescription medication and at least one artificial sensory experience to address the at least one attribute of at least one individual; and one or more instructions for presenting an indication of the at least one prescription medication and the at least one artificial sensory experience at least partly based on the selecting from the at least one database at least one prescription medication and at least one artificial sensory experience to address the at least one attribute of at least one individual. In addition to the foregoing, other method aspects are described in the claims, drawings, and text forming a part of the present disclosure.

In one aspect, a system includes but is not limited to a computing device and instructions that when executed on the computing device cause the computing device to accept at least one attribute of at least one individual; query at least one database at least partly based on the at least one attribute; select from the at least one database at least one prescription medication and at least one artificial sensory experience to address the at least one attribute of at least one individual; and present an indication of the at least one prescription medication and the at least one artificial sensory experience at least partly based on the selecting from the at least one database at least one prescription medication and at least one artificial sensory experience to address the at

least one attribute of at least one individual. In addition to the foregoing, other method aspects are described in the claims, drawings, and text forming a part of the present disclosure.

The foregoing is a summary and thus may contain simplifications, generalizations, inclusions, and/or omissions of detail; consequently, those skilled in the art will appreciate that the summary is illustrative only and is NOT intended to be in any way limiting. Other aspects, features, and advantages of the devices and/or processes and/or other subject matter described herein will become apparent in the teachings set forth herein.

BRIEF DESCRIPTION OF THE FIGURES

FIG. 1 illustrates an exemplary environment in which one or more technologies may be implemented.

FIG. 2 illustrates an operational flow representing example operations related to selecting a combination of at least one prescription medication and at least one artificial sensory experience.

FIG. 3 illustrates an alternative embodiment of the operational flow of FIG. 2.

FIG. 4 illustrates an alternative embodiment of the operational flow of FIG. 2.

FIG. 5 illustrates an alternative embodiment of the operational flow of FIG. 2.

FIG. 6 illustrates an alternative embodiment of the operational flow of FIG. 2.

FIG. 7 illustrates an alternative embodiment of the operational flow of FIG. 2.

FIG. 8 illustrates an alternative embodiment of the operational flow of FIG. 2.

FIG. 9 illustrates an alternative embodiment of the operational flow of FIG. 2.

FIG. 10 illustrates an alternative embodiment of the operational flow of FIG. 2.

FIG. 11 illustrates an alternative embodiment of the operational flow of FIG. 2.

FIG. 12 illustrates an alternative embodiment of the operational flow of FIG. 2.

FIG. 13 illustrates an alternative embodiment of the operational flow of FIG. 2.

FIG. 14 illustrates an alternative embodiment of the operational flow of FIG. 2.

FIG. 15 illustrates an alternative embodiment of the operational flow of FIG. 2.

FIG. 16 illustrates an alternative embodiment of the operational flow of FIG. 2.

FIG. 17 illustrates an alternative embodiment of the operational flow of FIG. 2.

FIG. 18 illustrates an alternative embodiment of the operational flow of FIG. 2.

FIG. 19 illustrates an alternative embodiment of the operational flow of FIG. 2.

FIG. 20 illustrates an alternative embodiment of the operational flow of FIG. 2.

FIG. 21 illustrates an alternative embodiment of the operational flow of FIG. 2.

FIG. 22 illustrates an alternative embodiment of the operational flow of FIG. 2.

FIG. 23 illustrates an alternative embodiment of the operational flow of FIG. 2.

FIG. 24 illustrates an alternative embodiment of the operational flow of FIG. 2.

FIG. 25 illustrates an alternative embodiment of the operational flow of FIG. 2.

FIG. 26 illustrates an alternative embodiment of the operational flow of FIG. 2.

FIG. 27 illustrates an alternative embodiment of the operational flow of FIG. 2.

FIG. 28 illustrates an alternative embodiment of the operational flow of FIG. 2.

FIG. 29 illustrates an operational flow representing example operations related to selecting a combination of at least one prescription medication and at least one artificial sensory experience.

FIG. 30 illustrates a computer program product related to selecting a combination of at least one prescription medication and at least one artificial sensory experience.

FIG. 31 illustrates a system related to selecting a combination of at least one prescription medication and at least one artificial sensory experience.

DETAILED DESCRIPTION

In the following detailed description, reference is made to the accompanying drawings, which form a part hereof. In the drawings, similar symbols typically identify similar components, unless context dictates otherwise. The illustrative embodiments described in the detailed description, drawings, and claims are not meant to be limiting. Other embodiments may be utilized, and other changes may be made, without departing from the spirit or scope of the subject matter presented here.

FIG. 1 illustrates a system 100 for accepting at least one attribute of at least one individual, querying at least one database at least partly based on the at least one attribute, selecting from the at least one database at least one prescription medication and at least one artificial sensory experience to address the at least one attribute of at least one individual, and presenting an indication of the at least one prescription medication and the at least one artificial sensory experience at least partly based on the selecting from the at least one database at least one prescription medication and at least one artificial sensory experience to address the at least one attribute of at least one individual. The system 100 may include acceptor module 102, querier module 104, selector module 106, presenter module 108, and/or implementer module 138. Acceptor module 102 may receive attribute 120 from network storage 110, memory device 112, database entry 114, and/or user interface 116. User interface 116 may receive information from user 118. User 118 may include health care provider 136. Querier module 104 may search database 122. Database 122 may include medication database 124 and/or artificial sensory experience database 126. Presenter module 108 may present to health care provider 128, output device 130, and/or individual 134. Output device 130 may include mobile device 132. System 100 generally represents instrumentality for accepting at least one attribute of at least one individual, querying at least one database at least partly based on the at least one attribute, selecting from the at least one database at least one prescription medication and at least one artificial sensory experience to address the at least one attribute of at least one individual, and presenting an indication of the at least one prescription medication and the at least one artificial sensory experience at least partly based on the selecting from the at least one database at least one prescription medication and at least one artificial sensory experience to address the at least one attribute of at least one individual. The operations of accepting at least one attribute of at least one individual, querying at least one database at least partly based on the at least one attribute, selecting from the at least one database

at least one prescription medication and at least one artificial sensory experience to address the at least one attribute of at least one individual, and presenting an indication of the at least one prescription medication and the at least one artificial sensory experience at least partly based on the selecting from the at least one database at least one prescription medication and at least one artificial sensory experience to address the at least one attribute of at least one individual may be accomplished electronically, such as with a set of interconnected electrical components, an integrated circuit, and/or a computer processor.

FIG. 2 illustrates an operational flow 200 representing example operations related to accepting at least one attribute of at least one individual, querying at least one database at least partly based on the at least one attribute, selecting from the at least one database at least one prescription medication and at least one artificial sensory experience to address the at least one attribute of at least one individual, and/or presenting an indication of the at least one prescription medication and the at least one artificial sensory experience at least partly based on the selecting from the at least one database at least one prescription medication and at least one artificial sensory experience to address the at least one attribute of at least one individual. In FIG. 2 and in following figures that include various examples of operational flows, discussion and explanation may be provided with respect to the above-described examples of FIG. 1, and/or with respect to other examples and contexts. However, it should be understood that the operational flows may be executed in a number of other environments and contexts, and/or in modified versions of FIG. 1. Also, although the various operational flows are presented in the sequence(s) illustrated, it should be understood that the various operations may be performed in other orders than those which are illustrated, or may be performed concurrently.

After a start operation, the operational flow 200 moves to an operation 210. Operation 210 depicts accepting at least one attribute of at least one individual. For example, as shown in FIG. 1, acceptor module 102 may accept at least one attribute of at least one individual. In one instance, acceptor module 102 can accept from a user 118 and a user interface 116 an attribute 120 including an attribute of a personal health history associated with an individual named John Smith. In some instances, acceptor module 102 may include a computer processor.

Then, operation 220 depicts querying at least one database at least partly based on the at least one attribute. For example, as shown in FIG. 1, querier module 104 may search at least one database at least partly based on the at least one attribute. In one example and continuing with the previous example, querier module 104 can search a database 122 including a medication database 124 and artificial sensory experience database 126 at least partly based on the attribute including an attribute of a personal health history associated with an individual named John Smith. In some instances, querier module 104 may include a computer processor.

Then, operation 230 depicts selecting from the at least one database at least one prescription medication and at least one artificial sensory experience to address the at least one attribute of at least one individual. For example, as shown in FIG. 1, selector module 106 may select from the at least one database at least one prescription medication and at least one artificial sensory experience to address the at least one attribute of at least one individual. In one instance and continuing with the previous example, selector module 106 can select from a medication database 124 and artificial

sensory experience database **126** a prescription medication and an artificial sensory experience for addressing the attribute **120** including an attribute of a personal health history associated with an individual named John Smith. In some instances, selector module **106** may include a computer processor.

Then, operation **240** depicts presenting an indication of the at least one prescription medication and the at least one artificial sensory experience at least partly based on the selecting from the at least one database at least one prescription medication and at least one artificial sensory experience to address the at least one attribute of at least one individual. For example, as shown in FIG. 1, presenter module **108** may present the at least one prescription medication and the at least one artificial sensory experience at least partly based on the searching at least one database at least partly based on the at least one attribute. In one instance and continuing with the previous example, presenter module **108** can present to a medical professional the prescription medication and the artificial sensory experience based on searching the medication database **124** and artificial sensory experience database **126** based on the at least one attribute **120** including an attribute of a personal health history associated with an individual named John Smith. In some instances, presenter module **108** may include a computer processor.

FIG. 3 illustrates alternative embodiments of the example operational flow **200** of FIG. 2. FIG. 3 illustrates example embodiments where the operation **210** may include at least one additional operation. Additional operations may include an operation **302**.

Operation **302** illustrates accepting at least one physical enhancement goal associated with the at least one individual. For example, as shown in FIG. 1, acceptor module **102** may accept from a database entry **114** at least one physical enhancement goal associated with the at least one individual. In one instance and continuing with the above example, acceptor module **102** accepts from memory device **112** at least one physical enhancement goal associated with an individual named John Smith. A physical enhancement goal may include a physical state and/or situation an individual may plan to achieve. Some examples of a physical enhancement goal may include achieving a certain state of relaxation, reaching a certain body mass, maintaining a specific cholesterol level, achieving an athletic performance goal, and/or lowering a blood pressure level. In some instances, acceptor module **102** may include a computer processor.

FIG. 4 illustrates alternative embodiments of the example operational flow **200** of FIG. 2. FIG. 4 illustrates example embodiments where the operation **210** may include at least one additional operation. Additional operations may include an operation **402**, an operation **404**, and/or an operation **406**.

Operation **402** illustrates accepting at least one physical attribute associated with the at least one individual. For example, as shown in FIG. 1, acceptor module **102** may accept from network storage **110** at least one physical attribute associated with the at least one individual. In one instance, acceptor module **102** can accept a physical attribute **120** associated with a group of twenty individuals including an individual weight for each individual. A physical attribute may include an attribute that may be described and/or detected using senses, that has substance and/or a material existence, and/or that may be acted upon by physical force. Some examples of a physical attribute may include a biochemical measurement such as blood sugar level, a smell, an appearance, a physiological measurement such as

blood pressure, and/or skin conductivity. In some instances, acceptor module **102** may include a computer processor.

Operation **404** illustrates accepting at least one physical symptom associated with the at least one individual. For example, as shown in FIG. 1, acceptor module **102** may accept at least one physical symptom associated with the at least one individual. In one example, acceptor module **102** can accept from a user **118** and/or user interface **116** a physical symptom including an indication of influenza such as a fever associated with an individual named Mark White. A physical symptom may include a manifestation, sign, and/or an indication of the presence of a disease and/or some other bodily disorder and/or abnormality. Some examples of a physical symptom may include pain, swelling, fever, rash, and/or discoloration. In some instances, acceptor module **102** may include a computer processor.

Operation **406** illustrates accepting at least one of an indication or a measurement of at least one of pain, hypertension, sweating, dizziness, lightheadedness, abnormal respiration, headache, fatigue, nausea, fever, abnormal heart rhythm, motor weakness, or abnormal heart rate. For example, as shown in FIG. 1, acceptor module **102** may accept from at least one of an indication or a measurement of at least one of pain, high blood pressure, sweating, dizziness, lightheadedness, abnormal respiration, headache, fatigue, nausea, fever, abnormal heart rhythm, motor weakness, or abnormal heart rate. In one example, acceptor module **102** can accept an indication of pain and a measurement of high blood pressure from network storage **110**. Pain may include a sensation of somatic hurt or disorder and may include acute pain and/or chronic pain. Hypertension may include chronically elevated blood pressure and may be considered to be present when a person's systolic blood pressure is consistently about 140 mm Hg or greater and/or their diastolic blood pressure is consistently about 90 mm Hg or greater. Sweating may include the excessive production and/or evaporation of fluid excreted by the sweat glands in the skin. Dizziness may include vertigo, disequilibrium, pre-syncope, and/or other balance disorders. Lightheadedness may include a sensation of dizziness and/or fainting. Abnormal respiration may include atypical and/or pathological breathing patterns. Headache may include pain in the head, neck, and/or upper back and may be a symptom of tension, migraine, dehydration, eye strain, sinus disorders, and/or low blood sugar. Fatigue may include muscle weakness and/or lack of strength. Nausea may include the sensation of unease and/or discomfort in the stomach, often with the urge to vomit. Fever may include an increase in internal body temperature to levels above normal. Abnormal heart rhythm may include inconsistent and/or irregular rhythmic contractions in the heart such as sick sinus syndrome, atrial fibrillation, and/or atrial flutter. Motor weakness may include a lack of strength and/or function in the portion of the central nervous system involved in movement. An abnormal heart rate may include an irregular heart contraction frequency such as bradycardia, tachycardia or the like. In some instances, acceptor module **102** may include a computer processor.

FIG. 5 illustrates alternative embodiments of the example operational flow **200** of FIG. 2. FIG. 5 illustrates example embodiments where the operation **210** may include at least one additional operation. Additional operations may include an operation **502**, and/or an operation **504**. Further, operation **502** illustrates accepting at least one physical impairment associated with the at least one individual. For example, as shown in FIG. 1, acceptor module **102** may accept at least one physical impairment associated with the

at least one individual from a user **118** and a user interface **116**. In one instance, acceptor module **102** accepts a physical impairment including a bodily impairment associated with an individual named Fred Johnson from a user **118** and/or a user interface **116**. A physical impairment may include a condition or function judged to be significantly impaired relative to the usual standard of an individual of their group and may include physical impairment, sensory impairment, and/or disease. In some instances, acceptor module **102** may include a computer processor.

Operation **504** illustrates accepting at least one of a disease, an illness, or a bodily impairment. For example, as shown in FIG. **1**, acceptor module **102** may accept at least one of a disease, an illness, or a bodily impairment. In one example, acceptor module **102** accepts an indication of a disease and a bodily impairment from database entry **114**. A disease may include an abnormal condition of an organism that impairs bodily functions associated with one or more specific symptoms and signs and may include discomfort, distress, dysfunction, injury, a disorder, a syndrome, infection, and/or other atypical variation associated with structure and/or function of the body. An illness may include any state of poor health. Some examples of an illness may include cancer, the common cold, influenza, pneumonia, and/or high cholesterol. A bodily impairment may include a diminished ability in body function and/or structure. In some instances, acceptor module **102** may include a computer processor.

FIG. **6** illustrates alternative embodiments of the example operational flow **200** of FIG. **2**. FIG. **6** illustrates example embodiments where operation **210** may include at least one additional operation. Additional operations may include an operation **602**. Operation **602** illustrates accepting an impairment associated with at least one individual including at least one of a potential medication reaction or a potential susceptibility to a side effect. For example, as shown in FIG. **1**, acceptor module **102** may accept an impairment associated with at least one individual including at least one of a potential medication reaction or a potential susceptibility to a side effect. In one example, acceptor module **102** can accept from network storage **110** an impairment associated with at least one individual including at least one of a potential medication reaction or a potential susceptibility to a side effect. A potential medication reaction may include a possible response a person may exhibit resulting from at least one drug and/or medication administered to the person. A potential medication reaction may include an allergy and/or a drug and/or medication interaction with a separate drug and/or medication. A potential susceptibility to a side effect may include the probability a certain person may be vulnerable to a side effect coupled with a specific drug and/or medication. In some instances, acceptor module **102** may include a computer processor.

FIG. **7** illustrates alternative embodiments of the example operational flow **200** of FIG. **2**. FIG. **7** illustrates example embodiments where the operation **210** may include at least one additional operation. Additional operations may include an operation **702**, and/or an operation **704**. Further, operation **702** illustrates accepting at least one physical diagnosis associated with the at least one individual. For example, as shown in FIG. **1**, acceptor module **102** may accept at least one physical diagnosis associated with the at least one individual. In a specific example, acceptor module **102** accepts from memory device **112** a physical diagnosis associated with a group of ten individuals. A physical diagnosis may include identifying a disease and/or condition by its outward signs and/or symptoms. Some examples of a physical diagnosis may include identifying influenza and/or

identifying Alzheimer's disease. In some instances, acceptor module **102** may include a computer processor.

Operation **704** illustrates accepting at least one diagnosis of at least one of a cardiovascular disorder, a digestive disorder, an endocrine disorder, a hearing disorder, an immune disorder, an inner ear disorder, an integumentary disorder, a lymphatic disorder, a muscular disorder, a nervous system disorder, a reproductive disorder, a respiratory disorder, a skeletal disorder, a visual disorder, or an urinary disorder. For example, as shown in FIG. **1**, acceptor module **102** may accept at least one diagnosis of at least one of a cardiovascular disorder, a digestive disorder, an endocrine disorder, an integumentary disorder, a lymphatic disorder, a muscular disorder, a nervous system disorder, a reproductive disorder, a respiratory disorder, a skeletal disorder, or an urinary disorder. In a specific instance, acceptor module **102** can accept from user interface **116** and/or user **118** a diagnosis of a respiratory disorder. A cardiovascular disorder may include a disorder associated with the circulatory system including the pumping and channeling of blood to and from the body and lungs with the heart, the blood, and the blood vessels. Examples of a circulatory disorder include high blood pressure, coronary heart disease, atherosclerosis, or the like. A digestive disorder may include a disorder associated with the esophagus, the stomach, the liver, the gallbladder, the pancreas, the intestines, the rectum, the anus, and/or the digestive system including digestion and processing food with salivary glands. Examples of a digestive disorder include GERD, Crohn's disease, IBS, or the like. An endocrine disorder may include a disorder associated with the endocrine system including the pancreas, the pituitary gland, the pineal body and/or the pineal gland, the thyroid, the parathyroids, the adrenal glands, and/or communication within the body using hormones made by the endocrine glands, such as the hypothalamus. Examples of an endocrine disorder include diabetes, acromegaly, or the like. A hearing disorder may include a full or partial decrease in the ability to detect or understand sounds. Some examples of a hearing disorder may include otosclerosis, deafness, and/or unilateral hearing loss. An immune disorder may include a dysfunction of the immune system. Examples of an immune disorder may include an immunodeficiency, such as malfunctioning lymphocytes; autoimmunity, such as Coeliac disease and/or autoimmune hepatitis; and/or hypersensitivity, such as asthma. An inner ear disorder may include a balance disorder, such as vertigo, disequilibrium, and/or pre-syncope. An integumentary disorder may include a disorder associated with the integumentary system including the skin, hair, and/or nails, such as psoriasis, eczema, dermatitis, or the like. A lymphatic disorder may include a disorder associated with the lymphatic system including structures involved in the transfer of lymph between tissues and the blood stream and/or the lymph and the nodes and vessels that transport lymph including the immune system, including defending against disease-causing agents with leukocytes, and/or including the tonsils, the adenoids, the thymus, and/or the spleen. Examples of a lymphatic disorder include lymphedema, lymphadenopathy, or the like. A muscle disorder may include a disorder associated with the muscular system including the structure and/or movement of muscles. Examples of a muscle disorder include muscular dystrophy, myasthenia gravis, an injury, such as a strain, or the like. A nervous system disorder may include a disorder associated with the nervous system including collecting, transferring, and/or processing information with the brain, the spinal cord, the peripheral nerves, and/or the nerves. Examples of a nervous system disorder include multiple

sclerosis, fibromyalgia, carpal tunnel syndrome, or the like. A reproductive disorder may include a disorder associated with the reproductive system including the sex organs, such as ovaries, fallopian tubes, the uterus, the vagina, mammary glands, testes, the vas deferens, seminal vesicles, the prostate, and/or the penis. Examples of a reproductive disorder include erectile dysfunction, endometriosis, fibroids, or the like. A respiratory disorder may include a disorder associated with the respiratory system including the organs used for breathing, the pharynx, the larynx, the trachea, the bronchi, the lungs, and/or the diaphragm. Examples of a respiratory disorder include emphysema, asthma, or the like. A skeletal disorder may include a disorder associated with the skeletal system including the structural support and protection with bones, cartilage, ligaments, and/or tendons. Examples of a skeletal disorder include osteoporosis, arthritis, tendonitis, a skeletal injury, such as a bone fracture, or the like. A visual disorder may include a disease, impairment, and/or Lack of function in the eye and/or in visual perception. Some examples of a visual disorder may include amblyopia, macular degeneration, glaucoma, and/or blindness. A urinary disorder may include a disorder associated with the urinary system including the kidneys, the ureters, the bladder and/or urethra involved in fluid balance, electrolyte balance and/or the excretion of urine. Examples of a urinary disorder include bladder dysfunction, kidney disease, bladder or urethra infection, or the Like. In some instances, acceptor module **102** may include a computer processor.

FIG. **8** illustrates alternative embodiments of the example operational flow **200** of FIG. **2**. FIG. **8** illustrates example embodiments where the operation **210** may include at least one additional operation. Additional operations may include an operation **802**, an operation **804**, an operation **806**, and/or operation **808**.

Operation **802** illustrates accepting at least one of a current treatment or a proposed treatment associated with the at Least one individual. For example, as shown in FIG. **1**, acceptor module **102** may accept at Least one of a current treatment or a proposed treatment associated with the at Least one individual. In one instance, acceptor module **102** accepts a current treatment regime associated with an individual named Cathy Hansen. A current treatment may include one or a series of treatments recommended, administered, and/or prescribed for a certain individual. A proposed treatment may include one or a series of treatments recommended, prescribed, and/or not currently administered to a certain individual. In some instances, acceptor module **102** may include a computer processor.

Operation **804** illustrates accepting the at least one attribute from a medical history associated with the at Least one individual. For example, as shown in FIG. **1**, acceptor module **102** may accept the at least one attribute from a medical history associated with the at least one individual. In one example, acceptor module **102** may accept from database entry **114** an attribute **120** from a medical history including the number of blood relatives with diabetes associated with an individual named Emily Smith. A medical history may include a list of previous illnesses, symptoms, medicines, treatments, health risk factors, operations, and/or doctor visits for an individual and/or a relation of an individual. In some instances, acceptor module **102** may include a computer processor.

Operation **806** illustrates accepting the at least one attribute from a personal medical history associated with at least one individual. For example, as shown in FIG. **1**, acceptor module **102** may accept the at least one attribute from a

personal medical history associated with at least one individual. In a specific instance, acceptor module **102** can accept from database entry **114** an attribute **120** including, for example, a list of operations from a personal medical history associated with an individual named Robert Murphy. A personal medical history may include a list of previous illnesses, symptoms, medicines, treatments, health risk factors, operations, and/or doctor visits associated with at least one individual. A personal and/or a family medical history may include life history and/or social history characteristics such as smoking, drinking, drug use, sexual history, exercise history, eating history, nutraceutical history, or the like. In some instances, acceptor module **102** may include a computer processor.

Operation **808** illustrates accepting the at least one attribute from a family medical history associated with the at least one individual. For example, as shown in FIG. **1**, acceptor module **102** may accept the at Least one attribute from a family medical history associated with the at least one individual. In one example, acceptor module **102** can accept from network storage **110** an attribute **120** including a list of family members that have had ovarian cancer from a family medical history associated with an anonymous individual or an individual named Elizabeth Green. A family medical history may include a list of previous illnesses, symptoms, medicines, treatments, health risk factors, operations, and/or doctor visits associated with family members related to the at least one individual. In some instances, acceptor module **102** may include a computer processor.

FIG. **9** illustrates alternative embodiments of the example operational flow **200** of FIG. **2**. FIG. **9** illustrates example embodiments where operation **210** may include at least one additional operation. Additional operations may include an operation **902**.

Operation **902** illustrates accepting at least one mental enhancement goal associated with the at least one individual. For example, as shown in FIG. **1**, acceptor module **102** may accept at least one mental enhancement goal associated with the at least one individual. In one instance, acceptor module **102** can accept a mental enhancement goal associated with, for example, an individual named Dorothy Anderson. A mental enhancement goal may include a mental state and/or situation an individual may plan to achieve. Some examples of a mental enhancement goal may include achieving a certain state of mental awareness such as increased alertness or visual perception, reaching a certain cognitive capability such as enhanced memory or pattern recognition, maintaining a specific attention level, and/or reducing or eliminating a phobia. In some instances, acceptor module **102** may include a computer processor.

FIG. **10** illustrates alternative embodiments of the example operational flow **200** of FIG. **2**. FIG. **10** illustrates example embodiments where operation **210** may include at least one additional operation. Additional operations may include an operation **1002**, an operation **1004**, and/or an operation **1006**.

Operation **1002** illustrates accepting at least one mental attribute associated with the at least one individual. For example, as shown in FIG. **1**, acceptor module **102** may accept at least one mental attribute associated with the at least one individual. In one example, acceptor module **102** can accept a mental attribute **120** including, for example, an intelligence quotient associated with an individual named Judy Peterson. A mental attribute may include an attribute that may be related to and/or associated with basic mental function and/or high-level brain function. Some examples of a mental attribute may include an intelligence quotient (IQ),

measurements of brain activity for example using functional MRI or near infra-red technology, and/or measurements of mental development. In some instances, acceptor module **102** may include a computer processor.

Operation **1004** illustrates accepting at least one mental symptom associated with the at least one individual. For example, as shown in FIG. 1, acceptor module **102** may accept at least one mental symptom associated with the at least one individual. In one example, acceptor module **102** can accept from network storage **110** a mental symptom including a stress level measurement associated with an individual named Heather Swanson. A mental symptom may include a manifestation, sign, and/or an indication of the presence of a disease and/or some other mental disorder and/or abnormality. Some examples of a mental symptom may include lack of attention, indication of stress, hyperactivity, nervousness, and/or lack of responsiveness. In some instances, acceptor module **102** may include a computer processor.

Operation **1006** illustrates accepting at least one indication of anxiety, an appearance, a behavior, depression, fear, inattention, a mood disturbance, a phobia, or a psychological test result. For example, as shown in FIG. 1, acceptor module **102** may accept at least one indication of anxiety, appearance, behavior, depression, fear, inattention, mood disturbance, phobia, or psychological test result. In one example, acceptor module **102** can accept from user interface **116** and user **118** an indication of anxiety and depression. Anxiety may include feelings of fear, apprehension, and/or worry and may be accompanied by physical sensations. An appearance may include an outward, audible, and/or visible aspect of a person and/or thing associated with a person. A behavior may include the manner in which a person and/or thing associated with a person acts and/or reacts. Depression may include a mental state characterized by pessimism, a sense of inadequacy, despondence, despair, a low level of energy, and/or a lack of activity. Fear may be caused by impending danger, perceived evil, and/or pain, whether real or imagined. Inattention may include the failure of a person to focus attention. A mood disturbance may include a change in emotional state. A phobia may include an irrational, and/or persistent fear of certain situations, objects, activities, and/or people. A psychological test result may include a sample behavior for inferring a certain generalization about a person. For example, a personality test result may indicate that person has obsessive/compulsive characteristics. In some instances, acceptor module **102** may include a computer processor.

FIG. 11 illustrates alternative embodiments of the example operational flow **200** of FIG. 2. FIG. 11 illustrates example embodiments where operation **210** may include at least one additional operation. Additional operations may include an operation **1102**.

Operation **1102** illustrates accepting at least one measurement associated with at least one of brain activity, cardiac activity, vascular activity, peripheral neural signals, hemodynamic activity, or metabolic activity. For example, as shown in FIG. 1, acceptor module **102** may accept at least one measurement associated with at least one of brain activity, cardiac activity, vascular activity, peripheral neural signals, hemodynamic activity, or metabolic activity. In one instance, acceptor module **102** can accept from database entry **114** a measurement associated with brain activity. Brain activity may include the electrical activity of the brain, such as that measured by EEG, MEG, or the like. Other brain activity measurements may include functional MRI imaging, near infra-red imaging, PET scanning, or the like.

Cardiac activity may include electrical activity in the heart, such as that measured by EKG or visual imaging. Vascular activity may include any activity and/or function of the circulatory system. Peripheral neural signals may include neural signals sent through the peripheral nervous system. Hemodynamic activity may include any activity associated with the circulatory system. Metabolic activity may include any activity associated with the biochemical reactions occurring in a living organism. In some instances, acceptor module **102** may include a computer processor.

FIG. 12 illustrates alternative embodiments of the example operational flow **200** of FIG. 2. FIG. 12 illustrates example embodiments where operation **210** may include at least one additional operation. Additional operations may include an operation **1202**, and/or an operation **1204**.

Operation **1202** illustrates accepting at least one mental impairment associated with at least one individual. For example, as shown in FIG. 1, acceptor module **102** may accept at least one mental impairment associated with at least one individual. In one example, acceptor module **102** can accept from memory device **112** a mental impairment associated with an individual named Richard Lewis. A mental impairment may include a condition or function judged by a health care provider to be significantly impaired relative to the usual standard of an individual of their group, and may include mental impairment, sensory impairment, and/or mental disease. In some instances, acceptor module **102** may include a computer processor.

Operation **1204** illustrates accepting at least one indication of at least one of a mood disorder, an anxiety disorder, a psychotic disorder, an eating disorder, a developmental disorder, a phobia, a communication disorder, a social disorder, or a personality disorder. For example, as shown in FIG. 1, acceptor module **102** may accept at least one indication of at least one of a mood disorder, an anxiety disorder, a psychotic disorder, an eating disorder, a developmental disorder, a phobia, or a personality disorder. In one instance, acceptor module **102** can accept from user interface **116** and/or user **118** an indication of a mood disorder including a mood change and the onset of depression in a specific individual. A mood disorder may include a condition whereby the prevailing emotional mood is distorted or inappropriate to the circumstances, and may include examples such as bipolar disorder, an alteration in mood, and/or depression. An anxiety disorder may include nervous system disorders such as irrationality, illogical worry not based on fact, fear, and/or phobia. A psychotic disorder may include a state of mind in which thinking becomes irrational and/or disturbed and may include hallucinations, abnormal perception, mania, dementia, delusions and/or delusional beliefs, delirium, depression, psychosis personality disorder, personality changes, and/or disorganized thinking. An eating disorder may include a compulsion to eat and/or avoid eating that negatively affects physical and/or mental health. Some examples of an eating disorder may include anorexia nervosa and bulimia nervosa. A developmental disorder may include a disorder occurring in a child's development, which may retard development. Some examples of a developmental disorder may include an emotional disorder, a cognitive disorder, and/or a mental disorder accompanied by physical traits, such as Down syndrome. A phobia may include an irrational, intense, and/or persistent fear of certain situations, objects, activities, and/or persons. Examples of phobias include social phobias, arachnophobia, xenophobia, and/or claustrophobia. A communication disorder may include a disease and/or a condition partially or totally preventing human communication. Some examples of a communication

disorder may include autism, stuttering, and/or aphasia. A social disorder may include a condition characterized by a difficulty in human interaction and/or emotional discomfort in social situations. Some examples of a social disorder may include stage fright, social anxiety disorder, and/or shyness. A personality disorder may include a disorder characterized by pathological trends in personality structure. Some examples of a personality disorder may include a paranoid personality disorder, a narcissistic personality disorder, and/or an obsessive-compulsive personality disorder. In some instances, acceptor module 102 may include a computer processor.

FIG. 13 illustrates alternative embodiments of the example operational flow 200 of FIG. 2. FIG. 13 illustrates example embodiments where operation 210 may include at least one additional operation. Additional operations may include an operation 1302, and/or an operation 1304. Further, operation 1302 illustrates accepting at least one mental diagnosis associated with at least one individual. For example, as shown in FIG. 1, acceptor module 102 may accept at least one mental diagnosis associated with at least one individual. In a specific instance, acceptor module 102 accepts from memory device 112 a mental diagnosis including a phobia associated with an anonymous individual or an individual named Roy Black. A mental diagnosis may include identifying a mental disorder and/or condition by its symptoms. Some examples of a mental diagnosis may include a mood disorder such as depression, an anxiety disorder such as PTSD, a behavioral disorder such as ADHD, a personality disorder such as borderline personality disorder, and/or a phobia. Mental disorders may include those listed in the Diagnostic and Statistical Manual of Mental Disorders (DSM). In some instances, acceptor module 102 may include a computer processor.

Operation 1304 illustrates accepting at least one of a depression, a phobia, an anxiety disorder, a personality disorder, a psychotic disorder, a developmental disorder, a panic disorder, a bipolar disorder, schizophrenia, an eating disorder, obsessive compulsive disorder, post traumatic stress disorder, an attentional disorder, a communication disorder, a social disorder, or a mood disorder. For example, as shown in FIG. 1, acceptor module 102 may accept at least one of a depression, a phobia, an anxiety disorder, a personality disorder, a psychotic disorder, a developmental disorder, a panic disorder, or a mood disorder. In one example, acceptor module 102 accepts from database entry 114 a diagnosis of depression. Depression may include a mental state characterized by a pessimistic sense of inadequacy and/or a despondent lack of activity. A phobia may include an irrational, intense, and/or persistent fear of certain situations, objects, activities, and/or persons. Some phobias may include social phobias, arachnophobia, xenophobia, and/or claustrophobia. An anxiety disorder may include nervous system disorders such as irrationality, illogical worry not based on fact, fears, and/or phobias. A personality disorder may include a disorder characterized by pathological trends in personality structure. Some examples of a personality disorder may include a paranoid personality disorder, a narcissistic personality disorder, and/or an obsessive-compulsive personality disorder. A psychotic disorder may include a state of mind in which thinking becomes irrational and/or disturbed and may include hallucinations, delusional beliefs, personality changes, and/or disorganized thinking. A developmental disorder may include a disorder occurring in a child's development, which may often retard development. Some examples of a developmental disorder may include psychological or physical disorders. A panic

disorder may include a condition characterized by recurring panic attacks in combination with significant behavioral change. A bipolar disorder may include a mood disorder characterized by the presence of one or more episodes of abnormally elevated mood, such as Bipolar I disorder, Bipolar II disorder, cyclothymia, and/or Bipolar-NOS. Schizophrenia may include a mental illness characterized by impairments in the perception or expression of reality, most commonly manifesting as auditory hallucinations, paranoid or bizarre delusions or disorganized speech and thinking in the context of significant social or occupational dysfunction. An eating disorder may include a compulsion to eat or avoid eating, such as anorexia nervosa and/or bulimia nervosa. Obsessive compulsive disorder may include a psychiatric anxiety disorder characterized by obsessive, distressing, intrusive thoughts and related compulsions which attempt to neutralize the obsessions. Post traumatic stress disorder may include an anxiety disorder that can develop after exposure to one or more terrifying events in which grave physical harm occurred or was threatened. An attentional disorder may include a persistent pattern of inattention and/or hyperactivity, as well as forgetfulness, poor impulse control or impulsivity, and distractibility, such as attention-deficit hyperactivity disorder (ADHD). A communication disorder may include a disease and/or a condition partially or totally preventing human communication. Some examples of a communication disorder may include autism, stuttering, and/or aphasia. A social disorder may include a condition characterized by a difficulty in human interaction and/or emotional discomfort in social situations. Some examples of a social disorder may include stage fright, social anxiety disorder, and/or shyness. A mood disorder may include a condition whereby the prevailing emotional mood is distorted or inappropriate to the circumstances and may include examples such as bipolar disorder and/or depression. In some instances, acceptor module 102 may include a computer processor.

FIG. 14 illustrates alternative embodiments of the example operational flow 200 of FIG. 2. FIG. 14 illustrates example embodiments where operation 210 may include at least one additional operation. Additional operations may include an operation 1402. Further, operation 1402 illustrates accepting at least one past mental therapy associated with the at least one individual. For example, as shown in FIG. 1, acceptor module 102 may accept at least one past mental therapy associated with the at least one individual. In one instance, acceptor module 102 can accept from database entry 114 a past mental therapy associated with an individual named James Williams or an anonymous individual. A past mental therapy may include a list and/or a record of at least one mental therapy, such as an anti-depressant medication, administered to at least one individual. In some instances, acceptor module 102 may include a computer processor.

FIG. 15 illustrates alternative embodiments of the example operational flow 200 of FIG. 2. FIG. 15 illustrates example embodiments where operation 210 may include at least one additional operation. Additional operations may include an operation 1502, an operation 1504, and/or an operation 1506.

Operation 1502 illustrates accepting the at least one attribute associated with the at least one individual from a health care provider. For example, as shown in FIG. 1, acceptor module 102 may accept the at least one attribute associated with the at least one individual from a health care provider. In one example, acceptor module 102 can accept from user interface 116 and/or user 118 an attribute 120 including a medication history associated with a group of

fifty individuals from a health care provider **136**. A health care provider may include a hospital, a doctor, a nurse, a medical clinic, a dentist, and/or any provider of preventive, diagnostic, therapeutic, rehabilitative, maintenance, or palliative care and/or counseling. A healthcare provider may include a seller and/or dispenser of prescription drugs or medical devices. In some instances, acceptor module **102** may include a computer processor.

Operation **1504** illustrates accepting the at least one attribute associated with the at least one individual from a Licensed health care provider. For example, as shown in FIG. **1**, acceptor module **102** may accept the at least one attribute associated with the at least one individual from a licensed health care provider. In one instance, acceptor module **102** accepts from memory device **112** an attribute **120** including a symptom indication a phobia associated with an individual named Robert Clark from a licensed health care provider **136**. A licensed health care provider may include a person Licensed by a governing authority, such as a state, to provide medical and/or health care. Some examples of a licensed health care provider may include a licensed medical doctor or physician, a licensed physician's assistant, and/or a Licensed nurse practitioner. In some instances, acceptor module **102** may include a computer processor.

Operation **1506** illustrates accepting the at least one attribute associated with the at least one individual from an alternative medicine provider. For example, as shown in FIG. **1**, acceptor module **102** may accept the at least one attribute associated with the at Least one individual from an alternative medicine provider. In one instance, acceptor module **102** can accept from network storage **110** an attribute **120** associated with an individual named Connie Martin from an alternative medicine provider. An alternative medicine provider may include a provider of folk medicine, herbal medicine, diet fads, homeopathy, faith healing, new age healing, chiropractic, acupuncture, aromatherapy, naturopathy, massage, reflexology, hypnotism, and/or music therapy. In some instances, acceptor module **102** may include a computer processor.

FIG. **16** illustrates alternative embodiments of the example operational flow **200** of FIG. **2**. FIG. **16** illustrates example embodiments where operation **220** may include at least one additional operation. Additional operations may include an operation **1602**.

Operation **1602** illustrates searching at least one prescription medication database and at least one artificial sensory experience database. For example, as shown in FIG. **1**, querier module **104** may search at least one prescription medication database and at least one artificial sensory experience database. In one example, querier module **104** searches a medication database **124** and an artificial sensory experience database **126**. A database may include a collection of data organized for convenient access. The database may include information digitally stored in a memory device **112**, as at least a portion of at least one database entry **114**, and/or in network storage **110**. In some instances, the database may include information stored non-digitally such as at least a portion of a book, a paper file, and/or a non-computerized index and/or catalog. Non-computerized information may be received by acceptor module **102** by scanning or by manually entering the information into a digital format. A prescription database and/or medication database may include any database associated with at least one prescription medication and may be available to health care professionals and/or the public. An artificial sensory experience database may include any database associated

with at least one artificial sensory experience and may include a database accessible by the public and/or a health care provider. In some instances, acceptor module **102** and/or querier module **104** may include one or more computer processors.

FIG. **17** illustrates alternative embodiments of the example operational flow **200** of FIG. **2**. FIG. **17** illustrates example embodiments where operation **230** may include at least one additional operation. Additional operations may include an operation **1702**, and/or an operation **1704**.

Operation **1702** illustrates selecting the at least one prescription medication from a physician's desk reference database. For example, as shown in FIG. **1**, selector module **106** may select the at least one prescription medication from a physician's desk reference database. In one example, selector module **106** selects the at least one prescription medication from a physician's desk reference database **122**, such as a PDR psychiatry database. In some instances, selector module **106** may include a computer processor.

Operation **1704** illustrates selecting at least one of an analgesic, an antacid, an antiarrhythmic, an antibacterial, an antibiotic, an anticoagulant, a thrombolytic, an anticonvulsant, an antidiarrheal, an antiemetic, an antifungal, an anti-allergic agent, an antihistamine, an antihypertensive, an anti-anginal, an anti-asthmatic, an anti-inflammatory, an antineoplastic, an antipyretic, an antiviral, an anti-ulcer agent, an antidyspeptic, an antacid, a beta-blocker, a bronchodilator, a cold treatment, a corticosteroid, an antitussive, a cytotoxic agent, a decongestant, a diuretic, an expectorant, a hormone, a hypoglycemic, an immunosuppressive, a laxative, a muscle relaxant, a sedative, a female sex hormone, a male sex hormone, a tranquilizer, an appetite modulator, or a vitamin. For example, as shown in FIG. **1**, selector module **106** may select at least one of an analgesic, an antacid, an antiarrhythmic, an antibacterial, an antibiotic, an anticoagulant, a thrombolytic, an anticonvulsant, an antidiarrheal, an antiemetic, an antifungal, an anti-allergic agent, an antihistamine, an antihypertensive, an anti-anginal, an anti-asthmatic, an anti-inflammatory, an antineoplastic, an antipyretic, an antiviral, an anti-ulcer agent, an antidyspeptic, an antacid, a beta-blocker, a bronchodilator, a cold treatment, a corticosteroid, a cough suppressant, an antitussive, a cytotoxic agent, a decongestant, a diuretic, an expectorant, a hormone, a hypoglycemic, an immunosuppressive, a laxative, a muscle relaxant, a sedative, a female sex hormone, a male sex hormone, a tranquilizer, an appetite modulator, or a vitamin. An analgesic may include a drug and/or other medication suitable for relieving pain. Additionally, an analgesic may be effective for relieving different degrees of pain. Some examples of an analgesic may include narcotics such as morphine or oxycodone, non-narcotics, an NSAID such as aspirin or naproxen or ibuprofen, and/or acetaminophen. An antacid may include a substance for neutralizing stomach acid, such as a proton pump inhibitor. Some examples of an antacid may include imeprazole and/or a pharmaceutical composition containing aluminum hydroxide, magnesium hydroxide, aluminum carbonate, calcium carbonate, sodium bicarbonate, hydrotalcite, bismuth subsalicylate, magaldrate, and/or simethicone.

An antiarrhythmic may include a drug for controlling a heartbeat irregularity. Some examples of an antiarrhythmic may include a beta blocker such as propranolol, and/or lidocaine, verapamil, and/or quinidine. An antibacterial may include a drug used to treat an infection. Some examples of an antibacterial may include amoxicillin and/or ciprofloxacin. An antibiotic may include a drug made from naturally occurring and/or synthetic substances for combating a bac-

terial infection. Some examples of an antibiotic may include penicillin, streptomycin, and/or sulfonamide-based drugs. An anticoagulant may include an agent for preventing blood clots. An example of an anticoagulant may include a vitamin K antagonist, such as warfarin, and/or aspirin. A thrombolytic may help dissolve and disperse a blood clot and may be prescribed for patients with recent arterial or venous thrombosis. A thrombolytic may be derived from *Streptomyces* spp. and/or recombinant DNA technology and may include streptokinase, urokinase, and/or a tissue plasminogen activator (TPA) such as alteplase.

An anticonvulsant may include a pharmaceutical administered for the prevention of seizures. Some examples of an anticonvulsant may include a barbiturate, a carbamate, a fatty acid derivative, and/or a sulfonamide. An antidiarrheal may include a drug utilized for the relief of diarrhea. Some examples of an antidiarrheal may include an antispasmodic such as diphenoxylate and loperamide, a bismuth compound, a bulking agent, and/or an absorbent. An antiemetic may include a drug used to treat nausea and vomiting. Some examples of an antiemetic may include a 5-HT₃ receptor antagonist, a dopamine antagonist, and/or a histamine. An antifungal may include a drug used to treat fungal infections, the most common of which affect the hair, skin, nails, and/or mucous membranes. Some examples of antifungals may include polyene antifungals, imidazole and triazole antifungals, and/or allylamines. An anti-allergenic agent may include an agent characterized by preventing and/or reducing the effect of an allergen. Some examples of an anti-allergenic may include an antihistamine, cortisone, hydrocortisone, and/or epinephrine. An antihistamine may include an agent used for counteracting the effects of histamine. Some examples of an antihistamine may include a H₁-receptor antagonist and/or a H₂-receptor antagonist. An antihypertensive may include drugs utilized for lowering blood pressure. Some examples of an antihypertensive may include a diuretic, an adrenergic receptor antagonist, and/or an ACE inhibitor. An anti-anginal may include an agent used for preventing and/or reducing angina and/or chest pain. Some examples of an anti-anginal may include aspirin, ranolazine, and/or ivabradine. An anti-asthmatic may include an agent for preventing and/or reducing asthma and/or its effects. Some examples of an anti-asthmatic may include albuterol and/or ipratropium bromide.

An anti-inflammatory may include an agent utilized to reduce inflammation and/or to treat redness, heat, swelling, and/or increased blood flow associated for example, that seen with an infection or injury, or in many chronic diseases such as rheumatoid arthritis and gout. Some anti-inflammatories may include steroids, and/or NSAIDs such as naproxen, ibuprofen, and/or aspirin. An antineoplastic may include drugs used to treat cancer and to inhibit and/or prevent the development of tumors. Some antineoplastics may include alkylating agents, antimetabolites, enzymes, enzyme inhibitors, immune modulators, and taxoids. An antipyretic may include a drug used to reduce a fever. Some examples of an antipyretic may include aspirin and/or acetaminophen. An antiviral may include a drug used to treat viral infections and/or to provide temporary protection against viral infections such as influenza. Some examples of an antiviral may include an interferon, acyclovir, ribavirin, and/or oseltamivir. An anti-ulcer agent may include an agent used for preventing and/or lessening the effect of an ulcer, including stomach ulcers, mouth ulcers, or other types of ulcers. Some examples of an anti-ulcer agent may include a bismuth compound, a prostaglandin analogue, and/or cimetidine. An antidyspeptic may include an agent used for

treating and/or preventing dyspepsia. Some examples of an antidyspeptic may include simethicone and/or a proton pump inhibitor, such as esomeprazole. An antacid may include a substance, often a base, which may counteract stomach acidity. Some examples of an antacid may include magnesium hydroxide, aluminum hydroxide, calcium carbonate, and/or bismuth subsalicylate. A beta-blocker may include a beta-adrenergic blocking agent utilized for reducing the oxygen needs of the heart by reducing the heartbeat rate. Some examples of a beta-blocker may include propranolol, esmolol, bisoprolol, and/or timolol. A bronchodilator may include an agent utilized for opening the bronchial tubes within the lungs when the tubes have become narrowed, for example, by muscle spasm and may be used for treating asthma. Some examples of a bronchodilator may include albuterol and/or ipratropium bromide. A cold treatment may include an agent utilized for treating aches, pains, and/or fever accompanying a cold. Some cold treatments may include aspirin, acetaminophen, a decongestant, an antihistamine, and/or caffeine.

A corticosteroid may include a hormonal preparation used as an anti-inflammatory for arthritis or asthma and/or treating some malignancies or compensating for a deficiency of natural hormones. Some examples of a corticosteroid may include cortisol and/or aldosterone. A cough suppressant may include an agent used to soothe irritation caused by coughing and/or to prevent coughing. Some examples of a cough suppressant may include codeine, an antihistamine, and/or dextromethorphan. An antitussive may include a cough suppressant. A cytotoxic agent may include a drug used for killing and/or damaging cells. Some examples of a cytotoxic agent may include actinomycin-D, azathioprine, bleomycin, melphalan, busulphan, doxorubicin, etoposide, an antineoplastic agent, and/or an apoptotic agent. A decongestant may include an agent for reducing the swelling of the mucous membranes lining the nose and/or throat. Some examples of a decongestant may include pseudoephedrine and phenylephrine. A diuretic may include an agent for increasing the quantity of urine produced by the kidneys and passed out of the body. Some examples of a diuretic may include hydrochlorothiazide, spironolactone, mannitol, and/or glucose. An expectorant may include an agent for stimulating the flow of saliva, loosening and thinning mucus in airways, and/or promoting a more productive cough as to eliminate phlegm from the respiratory tract. An example of an expectorant may include guaifenesin. A hormone may include molecules produced naturally by the endocrine glands. Some examples of a hormone may include steroid hormones, amine-derived hormones, peptide hormones, and/or lipid and phospholipid-derived hormones. A hypoglycemic may include an agent for lowering the level of glucose in the blood. Some examples of a hypoglycemic may include a sulfonylurea, a meglitinide, a biguanide, a thiazolidinedione, and/or an alpha-glucosidase inhibitor. An immunosuppressive may include an agent for preventing or reducing the body's normal reaction to invasion by disease and/or foreign tissues. Some examples of an immunosuppressive may include a drug such as a corticosteroid, cyclosporine, rapamycin, which acts on immunophilins, and/or an antibody.

A laxative may include an agent for increasing the frequency and ease of bowel movements. Some examples of a laxative may include methylcellulose, docusate, mineral oil, and/or magnesium hydroxide. A muscle relaxant may include an agent utilized for relieving muscle spasms. Some examples of a muscle relaxant may include neuromuscular blocking drugs, carisoprodol, cyclobenzaprine, metaxalone,

a benzodiazepine and/or a tranquilizer. A sedative may include a substance which depresses the central nervous system and may result in calmness, relaxation, reduction of anxiety, sleepiness, and/or slowed breathing. Some examples of a sedative may include zolpidem, and/or eszopiclone. A female sex hormone may include a hormone responsible for the development of female secondary sexual characteristics. Some examples of a female sex hormone may include estrogen and progesterone. A male sex hormone may include a hormone responsible for the development of secondary male sexual characteristics. One example of a male sex hormone may include testosterone. Sex hormone-related agents may include agents metabolically related to sex hormones. Examples of sex hormone-related agents may include sterols, androgens (testosterone), progestogens, estrogens (estradiols, estrone), follicle-stimulating hormone, luteinizing hormone, inhibin B, anti-Müllerian hormone, thyroid-related hormones. A tranquilizer may include any drug having a calming and/or sedative effect. Some examples of a tranquilizer may include an antidepressant, a barbiturate, and/or a benzodiazepine. An appetite modulator may include an agent used for regulating and/or adjusting appetite. Some examples of an appetite modulator may include recombinant PYY 3-36 and/or sibutramine. A vitamin may include chemicals essential in relatively small quantities for good health. Some examples of a vitamin may include Vitamin A, Vitamin C, Vitamin D, and/or Vitamin K.

In one instance, selector module **106** can select an analgesic and an antipsychotic for subsequent presentation, perhaps in response to accepting a pain symptom and a hallucination symptom as the at least one attribute. In some instances, selector module **106** may include a computer processor.

FIG. **18** illustrates alternative embodiments of the example operational flow **200** of FIG. **2**. FIG. **18** illustrates example embodiments where operation **230** may include at least one additional operation. Additional operations may include an operation **1802**. Further, operation **1802** illustrates selecting at least one of an antiparalytic, an antimanic, an antineuralgic, an anti-dyskinesia agent, an antispasmodic, an antiadrenergic, an antimuscarinic, a neuromimetic agent, a neuromuscular agent, an antianxiety agent, an antipsychotic, an antidepressant, a mood stabilizer, a stimulant, an anxiolytic, a hypnotic, or a sleeping agent. For example, as shown in FIG. **1**, selector module **106** may select at least one of an antiparalytic, an antimanic, an antineuralgic, an anti-dyskinesia agent, an antispasmodic, an antiadrenergic, an antimuscarinic, a neuromimetic agent, a neuromuscular agent, an antianxiety drug, an antipsychotic, an antidepressant, a mood stabilizer, a stimulant, an anxiolytic, a hypnotic, and/or a sleeping agent such as a long-acting barbiturate. In one example, selector module **106** selects an antianxiety drug and a sleeping agent. An antiparalytic may include an agent used for preventing the loss of and/or recovering muscle function. One example of an antiparalytic may include methylprednisolone. An antimanic may include an agent used for treating and/or suppressing mania. Some examples may include lamotrigine and/or carbamazepine. An antineuralgic may include an agent for relieving paroxysmal nerve pain. One example of an antineuralgic may include carbamazepine. An anti-dyskinesia agent may include an agent used for reducing and/or preventing dyskinesia, including involuntary muscle movement. One example of an anti-dyskinesia agent may include methylenedioxymethamphetamine. An antispasmodic may include a drug or an herb that suppresses smooth muscle contraction. Some examples of an antispasmodic may include dicyclo-

mine and/or hyoscyamine. An antiadrenergic may include a medication for inhibiting the functioning of the sympathetic nervous system. Some examples of an antiadrenergic may include clonidine and/or mecamlamine. An antimuscarinic may include an agent for reducing the activity of the muscarinic acetylcholine receptor. Some examples of an antimuscarinic may include atropine and/or hyoscine. A neuromimetic agent may include an agent that mimics the response of an effector organ to nerve impulses. A neuromuscular agent may block neuromuscular transmission at the neuromuscular junction and cause paralysis of the affected skeletal muscles. Some examples of a neuromuscular agent may include atracurium and/or vecuronium. An antianxiety drug may include a drug for suppressing anxiety and relaxing the muscles. An antianxiety drug may include a sedative, a tranquilizer, an anxiolytic, such as a benzodiazepine, alprazolam and/or diazepam, an antidepressant, a short-acting barbiturate, and/or an herbal treatment, such as chamomile, kava extract, Kratom, and/or valerian. An antipsychotic may include a group of drugs commonly used to treat psychosis and may include phenothiazines, thioxanthenes, butyrophenones, risperidone, amisulpride, and/or other suitable drugs. An antidepressant may include a psychiatric medication or other substance, such as a nutrient or herb, used for alleviating depression or dysthymia. Some examples of an antidepressant may include a selective serotonin reuptake inhibitor, such as Prozac and/or Zoloft, and/or a serotonin-norepinephrine reuptake inhibitor, such as Cymbalta. A mood stabilizer may include a psychiatric medication used to treat mood disorders characterized by intense and sustained mood shifts. Some examples of a mood stabilizer may include lithium carbonate and/or lamotrigine. A stimulant may include substances that may temporarily increase alertness and awareness, such as caffeine, ephedrine, and/or nicotine. An anxiolytic may include a substance used for the treatment of anxiety, such as a benzodiazepine and/or a barbiturate. A hypnotic may include substances that induce sleep, such as a barbiturate and/or an antihistamine (diphenhydramine). A sleeping agent may include any number of medications for helping a person sleep and/or stay asleep and may include benzodiazepines, antidepressants, melatonin, and/or antihistamines as well as other suitable substances. In some instances, selector module **106** may include a computer processor.

FIG. **19** illustrates alternative embodiments of the example operational flow **200** of FIG. **2**. FIG. **19** illustrates example embodiments where operation **230** may include at least one additional operation. Additional operations may include an operation **1902**, an operation **1904**, and/or an operation **1906**.

Operation **1902** illustrates selecting the at least one prescription medication at least partially based on at least one of a behavior, a symptom, or a diagnosis. For example, as shown in FIG. **1**, selector module **106** may select the at least one prescription medication at least partially based on at least one of a behavior, a symptom, or a diagnosis. In one instance, selector module **106** can select a prescription medication based on a diagnosis. A behavior may include the manner a person behaves toward other people and/or a certain circumstance. A symptom may include a subjective indicator of a health problem reported by an individual, or a sign of a health problem noticed by another, perhaps a doctor. A symptom may be evidence of a disease, a disability, an impairment, and/or a condition. A diagnosis may include an identification of a disease, a disability, an impairment, and/or a condition. In some instances, selector module **106** may include a computer processor.

Operation **1904** illustrates selecting the at least one prescription medication at least partially based on at least one of a susceptibility to a drug side effect or a drug interaction. For example, as shown in FIG. 1, selector module **106** may select the at least one prescription medication at least partially based on at least one of a susceptibility to a drug side effect or a drug interaction. In one instance, selector module **106** can select a prescription medication based on a susceptibility to a drug side effect including an allergy. A susceptibility to a drug side effect may include a probability a certain person may be vulnerable to a side effect associated with a specific drug and/or medication. A susceptibility to a drug side effect may include predisposition to a particular drug side effect or class of drug side effects, such as upset stomach associated with aspirin formulations. A drug reaction may include a possible response a person may exhibit resulting from at least one drug and/or medication administered to the person. A drug reaction may include an allergy and/or a drug and/or medication interaction with a separate drug and/or medication. In some instances, selector module **106** may include a computer processor.

Operation **1906** illustrates selecting a prescription medication and at least one alternative medicine treatment as the at least one prescription medication. For example, as shown in FIG. 1, selector module **106** may select a prescription medication and at least one alternative medicine treatment as the at least one prescription medication. In one instance, selector module **106** can select a prescription medication and at least one alternative medicine treatment as the at least one prescription medication. A prescription medication may include a medication, drug, and/or treatment available only with written instructions from a doctor, dentist, and/or other licensed professional. An alternative medicine treatment may include medical and/or nutraceutical treatments and/or practices utilized instead of standard medical treatments. Some examples of alternative medicine treatments may include chiropractic, herbal medicine, acupuncture, homeopathy, naturopathy, and/or spiritual devotions. In some instances, selector module **106** may include a computer processor.

FIG. 20 illustrates alternative embodiments of the example operational flow **200** of FIG. 2. FIG. 20 illustrates example embodiments where operation **230** may include at least one additional operation. Additional operations may include an operation **2002**, and/or an operation **2004**.

Operation **2002** illustrates selecting the at least one prescription medication at least partially based on at least one of a medication history of the at least one individual or an artificial sensory experience history of the at least one individual. For example, as shown in FIG. 1, selector module **106** may select the at least one prescription medication at least partially based on at least one of a medication history of the at least one individual or an artificial sensory experience history of the at least one individual. In one example, selector module **106** can select a prescription medication based on a medication history of an individual named Jennifer Harris or an anonymous individual. A medication history may include any record of administered medications and/or drugs that may exist for an individual. An artificial sensory experience history may include any record of an artificial sensory experience associated with an individual. In some instances, selector module **106** may include a computer processor.

Operation **2004** illustrates selecting the at least one prescription medication at least partially based on at least one of a genetic or an epigenetic profile. For example, as shown in FIG. 1, selector module **106** may select the at least one

prescription medication at least partially based on at least one of a genetic or an epigenetic profile. In one instance, selector module **106** can select a prescription medication based on a genetic profile. A genetic profile may include hereditary information encoded in the genetic sequence of an individual. An epigenetic profile may include information regarding chromatin and/or DNA modifications that are stable over rounds of cell division but do not involve changes in the underlying DNA sequence of the organism, such as histone acetylation and/or DNA methylation. Other epigenetic information may be found in higher-order chromatin structure. In some instances, selector module **106** may include a computer processor.

FIG. 21 illustrates alternative embodiments of the example operational flow **200** of FIG. 2. FIG. 21 illustrates example embodiments where operation **230** may include at least one additional operation. Additional operations may include an operation **2102**, and/or an operation **2104**.

Operation **2102** illustrates selecting at least one virtual experience as the at least one artificial sensory experience. For example, as shown in FIG. 1, selector module **106** may select at least one virtual experience as the at least one artificial sensory experience. In one example, selector module **106** can select a virtual experience as the artificial sensory experience. A virtual experience may include an experience with a computer-simulated environment. Such a virtual experience may be interactive or non-interactive. Some examples of a virtual experience may include an experience with a virtual world, a simulated reality, a computer game, and/or a virtual tour, and may involve input devices such as a keyboard, a mouse, an accelerometer-containing input device, and/or a wired glove. A virtual experience may also involve a visual and/or auditory monitoring device such as a video monitor, goggles, loudspeakers, or the like. Examples of a virtual experience include second life, snow world, or the like. In some instances, selector module **106** may include a computer processor.

Operation **2104** illustrates selecting at least one of a virtual world, a social networking website, an online game, an online educational experience, a networked game, or a single-player game. For example, as shown in FIG. 1, selector module **106** may select at least one of a virtual world, a social networking website, an online game, an online educational experience, a networked game, or a single-player game. In one instance, selector module **106** can select a virtual world. A virtual world may include a computer-based simulated environment intended for its users to inhabit and interact via avatars, such as second life. A social networking website may include a website for observing and/or interacting with one or more personal and/or professional relationships between individuals. Some examples of a social networking website may include MySpace, GeoCities, Facebook, and/or LinkedIn. In one instance, selector module **106** may select Facebook as the social networking website and may include directions to Facebook to implement a color scheme including bright colors, such as yellow and light blue, for preventing the onset of depression in a depression prone viewer. An online game may include a game played over a network, such as hardwired terminals, a wireless network, a modem network, a video console, and/or the internet. Some online games may include virtual worlds and/or virtual communities. Examples of online games may include World of Warcraft (WoW), Final Fantasy XI, Lineage II, Guild Wars, and/or RuneScape. An online educational experience may include a tutorial, a lesson, and/or an online class. Some examples of an online educational experience may include a HTML tutorial,

an online piano lesson, and/or an online degree program from the University of Phoenix. A networked game may include any game played by more than one player and may be played on a computer. An example of a networked game may include World of Warcraft (WoW). A single-player game may include any game that can be played by one player and that may or may not be played on a computer. Examples of a single-player game includes solitaire, puzzle games such as Tetris, Call of Duty, and Guitar Hero. In some instances, selector module **106** may include a computer processor.

FIG. **22** illustrates alternative embodiments of the example operational flow **200** of FIG. **2**. FIG. **22** illustrates example embodiments where operation **230** may include at least one additional operation. Additional operations may include an operation **2202**, and/or an operation **2204**.

Operation **2202** illustrates selecting at least one real-world sensory stimulus as the at least one artificial sensory experience. For example, as shown in FIG. **1**, selector module **106** may select at least one real-world sensory stimulus as the at least one artificial sensory experience. In one instance, selector module **106** can select a real-world sensory stimulus including an aroma as an artificial sensory experience. Some examples of a real-world sensory stimulus may include aromas and/or smells, sounds, sights, touch, pressure, temperature and/or heat, and/or vibration. In some instances, selector module **106** may include a computer processor. Further, operation **2204** illustrates selecting at least one of a smell, a taste, a sound, a physical contact, or a sight as the at least one real-world sensory stimulus. For example, as shown in FIG. **1**, selector module **106** may select at least one of a smell, a taste, a sound, a physical contact, or a sight as the at least one real-world sensory stimulus. In one example, selector module **106** selects a smell and a taste as a real-world sensory stimulus. A smell may include any property detected by the nose and/or olfactory system. A taste may include any flavor and/or property detected by the tongue and/or taste buds. A sound may include any sound wave that may be detected by the eardrum. A physical contact may include anything related to touch, feel, and/or detection by the skin and/or body, and/or physical activity including exercise. In one instance, selector module **106** may select a physical contact including physical exercise associated with participating in playing a tennis game on a Nintendo Wii video game console, for example. A sight may include any image, and/or light detected by the eyes. In some instances, selector module **106** may include a computer processor.

FIG. **23** illustrates alternative embodiments of the example operational flow **200** of FIG. **2**. FIG. **23** illustrates example embodiments where operation **230** may include at least one additional operation. Additional operations may include an operation **2302**, an operation **2304**, and/or an operation **2306**.

Operation **2302** illustrates selecting the at least one artificial sensory experience at least partially based on at least one of a behavior, a symptom, or a diagnosis. For example, as shown in FIG. **1**, selector module **106** may select the at least one artificial sensory experience at least partially based on at least one of a behavior, a symptom, or a diagnosis. In one example, selector module **106** can select an artificial sensory experience based on behavior entered by a user **118** via a user interface **116**. A behavior may include the manner in which a person and/or thing acts and/or reacts. A symptom may include a manifestation, sign, and/or an indication of the presence of a disease and/or some other disorder and/or abnormality. A diagnosis may include identifying a disease and/or condition by its signs and/or symptoms. For example,

selector module **106** and/or system **100** may select an immersive virtual reality experience as the at least one artificial sensory experience at least partially based on a pain symptom and/or a third-degree burn diagnosis. In some instances, selector module **106** may include a computer processor.

Operation **2304** illustrates selecting the at least one artificial sensory experience at least partially based on at least one demographic characteristic of the at least one individual. For example, as shown in FIG. **1**, selector module **106** may select the at least one artificial sensory experience at least partially based on at least one demographic characteristic of the at least one individual. In one example, selector module **106** can select an artificial sensory experience based on a demographic characteristic the at least one individual. A demographic characteristic may include a socioeconomic, age, gender, and/or other similar factor defining a certain population. For example, selector module **106** and/or system **100** may select a virtual reality experience such as a Sesame Street or Disney-themed experience as the at least one artificial sensory experience at least partially based on an indication that the individual is aged 6-10 years old. In some instances, selector module **106** may include a computer processor.

Further, operation **2306** illustrates selecting the at least one artificial sensory experience at least partially based on at least one of geographic location, family status, age, gender, weight, ethnicity, body mass index, household size, or income of the at least one individual. For example, as shown in FIG. **1**, selector module **106** may select the at least one artificial sensory experience at least partially based on at least one of geographic location, family status, age, gender, weight, ethnicity, body mass index, household size, or income of the at least one individual. In one example, selector module **106** can select the artificial sensory experience based on an age and a weight associated with the at least one individual. A geographic location may include a location where an individual currently resides, has resided in the past, and/or has visited. A family status may include marital status, status and/or presence of children, and/or the status and/or health of extended family. In some instances, selector module **106** may include a computer processor.

FIG. **24** illustrates alternative embodiments of the example operational flow **200** of FIG. **2**. FIG. **24** illustrates example embodiments where operation **230** may include at least one additional operation. Additional operations may include an operation **2402**, and/or an operation **2404**.

Operation **2402** illustrates selecting the at least one artificial sensory experience at least partially based on at least one of a medication history or an artificial sensory experience history of the at least one individual. For example, as shown in FIG. **1**, selector module **106** may select the at least one artificial sensory experience at least partially based on at least one of a medication history or an artificial sensory experience history of the at least one individual. In one instance, selector module **106** can select an artificial sensory experience based on an artificial sensory experience history of the at least one individual. An artificial sensory experience history may include any record of at least one administered artificial sensory experience history. For example, system **100** and/or selector module **106** may select a modified facebook webpage having a cheerful color scheme at Least partly based on a facebook usage history for an individual with signs of depression. In some instances, selector module **106** may include a computer processor.

Operation **2404** illustrates selecting a preferred artificial sensory experience and at least one alternative artificial

sensory experience. For example, as shown in FIG. 1, selector module 106 may select a preferred artificial sensory experience and at least one alternative artificial sensory experience. In one example, selector module 106 can select a preferred artificial sensory experience and at least one alternative artificial sensory experience. A preferred artificial sensory experience may include a more desirable artificial sensory experience due to a lack of and/or a reduced level of side effects, reduced impact upon the individual, and/or increased compatibility with another medications and/or treatment. An alternative artificial sensory experience may include any artificial sensory experience in addition to the preferred artificial sensory experience and may be less desirable than the preferred artificial sensory experience due to side effects and/or increased impact upon the individual. In some instances, selector module 106 may include a computer processor.

FIG. 25 illustrates alternative embodiments of the example operational flow 200 of FIG. 2. FIG. 25 illustrates example embodiments where operation 230 may include at least one additional operation. Additional operations may include an operation 2502, an operation 2504, and/or an operation 2506.

Operation 2502 illustrates selecting at least one artificial sensory experience and at least one prescription medication at least partially based on a treatment algorithm. For example, as shown in FIG. 1, selector module 106 may select at least one artificial sensory experience and at least one prescription medication at least partially based on a treatment algorithm. In one instance, selector module 106 can select an artificial sensory experience and a prescription medication based on a computer software treatment algorithm. A treatment algorithm may include any computation, formula, statistical survey, and/or look-up table for determining and/or selecting a suitable artificial sensory experience and prescription medication combination. Some examples may include a computer software algorithm, a calculator, a flowchart, and/or a decision tree. For example, system 100 and/or selector module 106 may, based on an accepted pain symptom of an individual, access a lookup chart that matches the pain symptom with a pain medication, such as naproxen, and a virtual experience, such as World of Warcraft. Such a combination therapy may be particularly effective in ameliorating the pain symptom in the individual. In some instances, selector module 106 may include a computer processor.

Further, operation 2504 illustrates selecting at least one prescription medication at least partially based on at least one of a drug allergy associated with the at least one individual or a drug interaction associated with the at least one prescription medication. For example, as shown in FIG. 1, selector module 106 may select at least one prescription medication at least partially based on at least one of a drug allergy associated with the at least one individual or a drug interaction associated with the at least one prescription medication. In one example, selector module 106 can select a prescription medication based on a drug allergy associated with the at least one individual. A drug allergy may include any allergy to a drug and/or drug intolerance. Some examples of a drug allergy may include penicillin allergies, codeine allergies, and/or allergies to a dye in a drug. A drug interaction may include an undesirable and/or unwanted reaction between two or more drugs and/or medications. For example, the system 100 and/or selector module 106 can select a prescription medication other than those that might cause a side effect in an individual, perhaps because of a known predisposition to the side effect (e.g., an allergy) or

because of a known drug-drug interaction relevant to the individual based on the individual's medication regimen. In this way, risk of side effects can be lessened. In some instances, selector module 106 may include a computer processor.

Operation 2506 illustrates selecting at least one opioid analgesic and at least one virtual world experience to address at least one pain attribute of at least one individual. For example, as shown in FIG. 1, selector module 106 may select from a prescription medication database at least one opioid analgesic and at least one virtual world experience to address at least one pain attribute of at least one individual. In one example, selector module 106 can select an opioid analgesic including morphine and a virtual world experience including an online game to address a pain attribute of at least one individual named Mary Andersen. In some instances, selector module 106 may include a computer processor.

FIG. 26 illustrates alternative embodiments of the example operational flow 200 of FIG. 2. FIG. 26 illustrates example embodiments where operation 240 may include at least one additional operation. Additional operations may include an operation 2602, an operation 2604, and/or an operation 2606.

Operation 2602 illustrates presenting an indication of a preferred combination including at least one prescription medication and at least one artificial sensory experience and at least one alternative combination including at least one alternative prescription medication and at least one alternative artificial sensory experience. For example, as shown in FIG. 1, presenter module 108 may present an indication of a preferred combination including at least one prescription medication and at least one artificial sensory experience and at least one alternative combination including at least one alternative prescription medication and at least one alternative artificial sensory experience. In one instance, presenter module 108 can present an indication of a preferred combination to an individual 134 including a prescription medication and an artificial sensory experience along with an alternative combination including an alternative prescription medication and an alternative artificial sensory experience. Individual 134 may include a single individual, multiple individuals, and/or an entity. A preferred combination may include a more desirable combination due to a lack of and/or a reduced number of and/or level of side effects, reduced impact upon the administered individual, and/or increased compatibility with another medications and/or treatment. An alternative combination may include any combination in addition to the preferred combination and may be ostensibly less desirable than the preferred artificial sensory experience because of a potential side effect and/or impact upon the administered individual. Presentation of alternative combinations may provide benefits to the individual in terms of accessibility, affordability, and/or personal preference of medication and/or artificial sensory experience. In some instances, presenter module 108 may include a computer processor.

Operation 2604 illustrates presenting an indication of the at least one prescription medication and the at least one artificial sensory experience to at least one output device. For example, as shown in FIG. 1, presenter module 108 may present an indication of the at least one prescription medication and the at least one artificial sensory experience to at least one output device. In one example, presenter module 108 can present an indication of a prescription medication and an artificial sensory experience to an output device 130 including a printer at a health clinic. An output device may

include any hardware device configured for receiving computer output. Some examples of an output device may include a printer, a monitor, a mobile phone, a speaker, and/or a visual display unit. The output device may be used by individual 134. In some instances, presenter module 108 may include a computer processor.

Further, operation 2606 illustrates presenting an indication of at least one of the at least one prescription medication or the at least one artificial sensory experience to at least one user interface. For example, as shown in FIG. 1, presenter module 108 may present an indication of at least one of the at least one prescription medication or the at least one artificial sensory experience to at least one user interface. In one instance, presenter module 108 can present an indication of a prescription medication and an artificial sensory experience to a user interface. A user interface may include means by which an individual may interact with a system. Some examples of a user interface may include a touch-screen, a graphical user interface, a tactile interface, and/or a live user interface. In some instances, presenter module 108 may include a computer processor.

FIG. 27 illustrates alternative embodiments of the example operational flow 200 of FIG. 2. FIG. 27 illustrates example embodiments where operation 240 may include at least one additional operation. Additional operations may include an operation 2702. Further, operation 2702 illustrates presenting an indication of at least one of the at least one prescription medication or the at least one artificial sensory experience to at least one mobile device. For example, as shown in FIG. 1, presenter module 108 may present an indication of at least one of the at least one prescription medication or the at least one artificial sensory experience to at least one mobile device. In one instance, presenter module 108 can present an indication of a prescription medication to a mobile device 132. A mobile device may include a portable computing device and may have wireless connection capability. Some examples of a mobile device may include a laptop or notebook computer, a personal digital assistant (PDA), an ipod, a smartphone, an Enterprise digital assistant (EDA), and/or a pager. In some instances, presenter module 108 may include a computer processor.

FIG. 28 illustrates alternative embodiments of the example operational flow 200 of FIG. 2. FIG. 28 illustrates example embodiments where operation 240 may include at least one additional operation. Additional operations may include an operation 2802, and/or an operation 2804.

Operation 2802 illustrates presenting to a health care provider an indication of at least one of the at least one prescription medication or the at least one artificial sensory experience at least partly based on the selecting at least one prescription medication and at least one artificial sensory experience to address the at least one attribute of at least one individual. For example, as shown in FIG. 1, presenter module 108 may present to a health care provider an indication of at least one of the at least one prescription medication or the at least one artificial sensory experience at least partly based on the selecting at least one prescription medication and at least one artificial sensory experience to address an attribute of an individual. In one example, presenter module 108 can present to a health care provider 128 an indication of a prescription medication based on the selecting at least one prescription medication and at least one artificial sensory experience to address the at least one attribute 120 of at least one individual. A health care provider may include a pharmacy, a pharmaceutical company, a medical device company, a research institution, a

computer software and/or computer hardware company, a website, a nurse and/or a physician. In some instances, presenter module 108 may include a computer processor.

Operation 2804 illustrates presenting an indication of the at least one prescription medication or the at least one artificial sensory experience at a staggered time. For example, as shown in FIG. 1, presenter module 108 may present an indication of at least one of the at least one prescription medication or the at least one artificial sensory experience at a staggered time. In one example, presenter module 108 can present an indication of a series of prescription medications and an artificial sensory experience at staggered times. A staggered time may include presenting an indication of the at least one drug and/or artificial sensory experience at overlapping times and/or at different times, including alternating times. For example, at least one drug and an artificial sensory experience may be administered at an initial time and the same or a different drug may be administered when the first-administered at least one drug is at its peak effect. In another example, at least one drug and an artificial sensory experience may be administered at an initial time and the same or a different drug may be administered when the first administered at least one drug is at its lowest effect. In another example, an artificial sensory experience may be administered at an initial time and at least one prescription medication at a later time. The at least one artificial sensory experience and/or the at least one prescription medication may be administered at any number of times either concurrently, partially concurrently, or not concurrently. In some instances, presenter module 108 may include a computer processor.

FIG. 29 illustrates an operational flow 2900 representing example operations related to querying at least one database at least partly based on at least one attribute of an individual, selecting from the at least one database at least one prescription medication to address the at least one attribute of at least one individual, and/or implementing at least one artificial sensory experience to address the at least one attribute of at least one individual in response to a selected at least one prescription medication. In FIG. 29, discussion and explanation may be provided with respect to the above-described examples of FIG. 1, and/or with respect to other examples and contexts. However, it should be understood that the operational flows may be executed in a number of other environments and contexts, and/or in modified versions of FIG. 1. Also, although the various operational flows are presented in the sequence(s) illustrated, it should be understood that the various operations may be performed in other orders than those which are illustrated, or may be performed concurrently.

After a start operation, the operational flow 2900 moves to an operation 2910. Operation 2910 depicts querying at least one database at least partly based on at least one attribute of an individual. For example, as shown in FIG. 1, querier module 104 may search at least one database at least partly based on at least one attribute of an individual. In one instance, querier module 104 may search medication database 124 and artificial sensory experience database 126 based on an attribute 120 including an indication of hypertension associated with an individual named John Smith. In some instances, querier module 104 may include a computer processor.

Then, operation 2920 depicts selecting from the at least one database at least one prescription medication to address the at least one attribute of at least one individual. For example, as shown in FIG. 1, selector module 106 may select from the at least one database at least one prescription

medication to address the at least one attribute of at Least one individual. In one example and continuing with the previous example, selector module 106 may select from medication database 124 and artificial sensory experience database 126 a prescription medicine for addressing the attribute 120 including an indication of hypertension associated with an individual named John Smith. In some instances, selector module 106 may include a computer processor.

Then, operation 2930 depicts implementing at least one artificial sensory experience to address the at least one attribute of at least one individual in response to a selected at least one prescription medication. For example, as shown in FIG. 1, implementer module 138 may implement at least one artificial sensory experience to address the at least one attribute of at Least one individual in response to a selected at least one prescription medication. In one instance and continuing with the previous example, implementer module 106 may implement an artificial sensory experience including a virtual world for addressing the attribute 120 including an indication of hypertension associated with an individual named John Smith in response to a selected prescription medication from a medication database 124. In some instances, selector module 106 may include a computer processor.

FIG. 30 illustrates a partial view of an example computer program product 3000 that includes a computer program 3004 for executing a computer process on a computing device. An embodiment of the example computer program product 3000 is provided using a signal-bearing medium 3002, and may include one or more instructions for accepting at least one attribute of at least one individual; one or more instructions for querying at least one database at least partly based on the at least one attribute; one or more instructions for selecting from the at least one database at least one prescription medication and at least one artificial sensory experience to address the at least one attribute of at least one individual; and one or more instructions for presenting an indication of the at least one prescription medication and the at least one artificial sensory experience at least partly based on the selecting from the at least one database at least one prescription medication and at least one artificial sensory experience to address the at least one attribute of at least one individual. The one or more instructions may be, for example, computer executable and/or logic-implemented instructions. In one implementation, the signal-bearing medium 3002 may include a computer-readable medium 3006. In one implementation, the signal bearing medium 3002 may include a recordable medium 3008. In one implementation, the signal bearing medium 3002 may include a communications medium 3010.

FIG. 31 illustrates an example system 3100 in which embodiments may be implemented. The system 3100 includes a computing system environment. The system 3100 also illustrates the user 118 using a device 3104, which is optionally shown as being in communication with a computing device 3102 by way of an optional coupling 3106. The optional coupling 3106 may represent a Local, wide-area, or peer-to-peer network, or may represent a bus that is internal to a computing device (e.g., in example embodiments in which the computing device 3102 is contained in whole or in part within the device 3104). A storage medium 3108 may be any computer storage media.

The computing device 3102 includes computer-executable instructions 3110 that when executed on the computing device 3102 cause the computing device 3102 to accept at least one attribute of at least one individual; query at least

one database at least partly based on the at least one attribute; select from the at least one database at least one prescription medication and at least one artificial sensory experience to address the at least one attribute of at least one individual; and present an indication of the at least one prescription medication and the at least one artificial sensory experience at least partly based on the selecting from the at least one database at least one prescription medication and at least one artificial sensory experience to address the at least one attribute of at least one individual. As referenced above and as shown in FIG. 31, in some examples, the computing device 3102 may optionally be contained in whole or in part within the device 3104.

In FIG. 31, then, the system 3100 includes at least one computing device (e.g., 3102 and/or 3104). The computer-executable instructions 3110 may be executed on one or more of the at least one computing device. For example, the computing device 3102 may implement the computer-executable instructions 3110 and output a result to (and/or receive data from) the computing device 3104. Since the computing device 3102 may be wholly or partially contained within the computing device 3104, the device 3104 also may be said to execute some or all of the computer-executable instructions 3110, in order to be caused to perform or implement, for example, various ones of the techniques described herein, or other techniques.

The device 3104 may include, for example, a portable computing device, workstation, or desktop computing device. In another example embodiment, the computing device 3102 is operable to communicate with the device 3104 associated with the user 118 to receive information about the input from the user 118 for performing data access and data processing and presenting an output of the user-health test function at least partly based on the user data.

Although a user 118 is shown/described herein as a single illustrated figure, those skilled in the art will appreciate that a user 118 may be representative of a human user, a robotic user (e.g., computational entity), and/or substantially any combination thereof (e.g., a user may be assisted by one or more robotic agents). In addition, a user 118, as set forth herein, although shown as a single entity may in fact be composed of two or more entities. Those skilled in the art will appreciate that, in general, the same may be said of "sender" and/or other entity-oriented terms as such terms are used herein.

Following are a series of flowcharts depicting implementations. For ease of understanding, the flowcharts are organized such that the initial flowcharts present implementations via an example implementation and thereafter the following flowcharts present alternate implementations and/or expansions of the initial flowchart(s) as either sub-component operations or additional component operations building on one or more earlier-presented flowcharts. Those having skill in the art will appreciate that the style of presentation utilized herein (e.g., beginning with a presentation of a flowchart(s) presenting an example implementation and thereafter providing additions to and/or further details in subsequent flowcharts) generally allows for a rapid and easy understanding of the various process implementations. In addition, those skilled in the art will further appreciate that the style of presentation used herein also lends itself well to modular and/or object-oriented program design paradigms.

Those skilled in the art will appreciate that the foregoing specific exemplary processes and/or devices and/or technologies are representative of more general processes and/or

devices and/or technologies taught elsewhere herein, such as in the claims filed herewith and/or elsewhere in the present application.

Those having skill in the art will recognize that the state of the art has progressed to the point where there is little distinction left between hardware, software, and/or firmware implementations of aspects of systems; the use of hardware, software, and/or firmware is generally (but not always, in that in certain contexts the choice between hardware and software can become significant) a design choice representing cost vs. efficiency tradeoffs. Those having skill in the art will appreciate that there are various vehicles by which processes and/or systems and/or other technologies described herein can be effected (e.g., hardware, software, and/or firmware), and that the preferred vehicle will vary with the context in which the processes and/or systems and/or other technologies are deployed. For example, if an implementer determines that speed and accuracy are paramount, the implementer may opt for a mainly hardware and/or firmware vehicle; alternatively, if flexibility is paramount, the implementer may opt for a mainly software implementation; or, yet again alternatively, the implementer may opt for some combination of hardware, software, and/or firmware. Hence, there are several possible vehicles by which the processes and/or devices and/or other technologies described herein may be effected, none of which is inherently superior to the other in that any vehicle to be utilized is a choice dependent upon the context in which the vehicle will be deployed and the specific concerns (e.g., speed, flexibility, or predictability) of the implementer, any of which may vary. Those skilled in the art will recognize that optical aspects of implementations will typically employ optically-oriented hardware, software, and or firmware.

In some implementations described herein, logic and similar implementations may include software or other control structures suitable to operation. Electronic circuitry, for example, may manifest one or more paths of electrical current constructed and arranged to implement various logic functions as described herein. In some implementations, one or more media are configured to bear a device-detectable implementation if such media hold or transmit a special-purpose device instruction set operable to perform as described herein. In some variants, for example, this may manifest as an update or other modification of existing software or firmware, or of gate arrays or other programmable hardware, such as by performing a reception of or a transmission of one or more instructions in relation to one or more operations described herein. Alternatively or additionally, in some variants, an implementation may include special-purpose hardware, software, firmware components, and/or general-purpose components executing or otherwise invoking special-purpose components. Specifications or other implementations may be transmitted by one or more instances of tangible transmission media as described herein, optionally by packet transmission or otherwise by passing through distributed media at various times.

Alternatively or additionally, implementations may include executing a special-purpose instruction sequence or otherwise invoking circuitry for enabling, triggering, coordinating, requesting, or otherwise causing one or more occurrences of any functional operations described above. In some variants, operational or other logical descriptions herein may be expressed directly as source code and compiled or otherwise invoked as an executable instruction sequence. In some contexts, for example, C++ or other code sequences can be compiled directly or otherwise imple-

mented in high-level descriptor languages (e.g., a logic-synthesizable language, a hardware description language, a hardware design simulation, and/or other such similar mode(s) of expression). Alternatively or additionally, some or all of the logical expression may be manifested as a Verilog-type hardware description or other circuitry model before physical implementation in hardware, especially for basic operations or timing-critical applications. Those skilled in the art will recognize how to obtain, configure, and optimize suitable transmission or computational elements, material supplies, actuators, or other common structures in light of these teachings.

The foregoing detailed description has set forth various embodiments of the devices and/or processes via the use of block diagrams, flowcharts, and/or examples. Insofar as such block diagrams, flowcharts, and/or examples contain one or more functions and/or operations, it will be understood by those within the art that each function and/or operation within such block diagrams, flowcharts, or examples can be implemented, individually and/or collectively, by a wide range of hardware, software, firmware, or virtually any combination thereof. In one embodiment, several portions of the subject matter described herein may be implemented via Application Specific Integrated Circuits (ASICs), Field Programmable Gate Arrays (FPGAs), digital signal processors (DSPs), or other integrated formats. However, those skilled in the art will recognize that some aspects of the embodiments disclosed herein, in whole or in part, can be equivalently implemented in integrated circuits, as one or more computer programs running on one or more computers (e.g., as one or more programs running on one or more computer systems), as one or more programs running on one or more processors (e.g., as one or more programs running on one or more microprocessors), as firmware, or as virtually any combination thereof, and that designing the circuitry and/or writing the code for the software and or firmware would be well within the skill of one of skill in the art in light of this disclosure. In addition, those skilled in the art will appreciate that the mechanisms of the subject matter described herein are capable of being distributed as a program product in a variety of forms, and that an illustrative embodiment of the subject matter described herein applies regardless of the particular type of signal bearing medium used to actually carry out the distribution. Examples of a signal bearing medium include, but are not limited to, the following: a recordable type medium such as a floppy disk, a hard disk drive, a Compact Disc (CD), a Digital Video Disk (DVD), a digital tape, a computer memory, etc.; and a transmission type medium such as a digital and/or an analog communication medium (e.g., a fiber optic cable, a waveguide, a wired communications link, a wireless communication link (e.g., transmitter, receiver, transmission logic, reception logic, etc.), etc.).

In a general sense, those skilled in the art will recognize that the various embodiments described herein can be implemented, individually and/or collectively, by various types of electro-mechanical systems having a wide range of electrical components such as hardware, software, firmware, and/or virtually any combination thereof; and a wide range of components that may impart mechanical force or motion such as rigid bodies, spring or torsional bodies, hydraulics, electro-magnetically actuated devices, and/or virtually any combination thereof. Consequently, as used herein "electro-mechanical system" includes, but is not limited to, electrical circuitry operably coupled with a transducer (e.g., an actuator, a motor, a piezoelectric crystal, a Micro Electro Mechanical System (MEMS), etc.), electrical circuitry hav-

ing at least one discrete electrical circuit, electrical circuitry having at least one integrated circuit, electrical circuitry having at least one application specific integrated circuit, electrical circuitry forming a general purpose computing device configured by a computer program (e.g., a general purpose computer configured by a computer program which at least partially carries out processes and/or devices described herein, or a microprocessor configured by a computer program which at least partially carries out processes and/or devices described herein), electrical circuitry forming a memory device (e.g., forms of memory (e.g., random access, flash, read only, etc.)), electrical circuitry forming a communications device (e.g., a modem, communications switch, optical-electrical equipment, etc.), and/or any non-electrical analog thereto, such as optical or other analogs. Those skilled in the art will also appreciate that examples of electro-mechanical systems include but are not limited to a variety of consumer electronics systems, medical devices, as well as other systems such as motorized transport systems, factory automation systems, security systems, and/or communication/computing systems. Those skilled in the art will recognize that electro-mechanical as used herein is not necessarily limited to a system that has both electrical and mechanical actuation except as context may dictate otherwise.

In a general sense, those skilled in the art will recognize that the various aspects described herein which can be implemented, individually and/or collectively, by a wide range of hardware, software, firmware, and/or any combination thereof can be viewed as being composed of various types of "electrical circuitry." Consequently, as used herein "electrical circuitry" includes, but is not limited to, electrical circuitry having at least one discrete electrical circuit, electrical circuitry having at least one integrated circuit, electrical circuitry having at least one application specific integrated circuit, electrical circuitry forming a general purpose computing device configured by a computer program (e.g., a general purpose computer configured by a computer program which at least partially carries out processes and/or devices described herein, or a microprocessor configured by a computer program which at least partially carries out processes and/or devices described herein), electrical circuitry forming a memory device (e.g., forms of memory (e.g., random access, flash, read only, etc.)), and/or electrical circuitry forming a communications device (e.g., a modem, communications switch, optical-electrical equipment, etc.). Those having skill in the art will recognize that the subject matter described herein may be implemented in an analog or digital fashion or some combination thereof.

Those skilled in the art will recognize that at least a portion of the devices and/or processes described herein can be integrated into a data processing system. Those having skill in the art will recognize that a data processing system generally includes one or more of a system unit housing, a video display device, memory such as volatile or non-volatile memory, processors such as microprocessors or digital signal processors, computational entities such as operating systems, drivers, graphical user interfaces, and applications programs, one or more interaction devices (e.g., a touch pad, a touch screen, an antenna, etc.), and/or control systems including feedback loops and control motors (e.g., feedback for sensing position and/or velocity; control motors for moving and/or adjusting components and/or quantities). A data processing system may be implemented utilizing suitable commercially available components, such as those typically found in data computing/communication and/or network computing/communication systems.

Those skilled in the art will recognize that it is common within the art to implement devices and/or processes and/or systems, and thereafter use engineering and/or other practices to integrate such implemented devices and/or processes and/or systems into more comprehensive devices and/or processes and/or systems. That is, at least a portion of the devices and/or processes and/or systems described herein can be integrated into other devices and/or processes and/or systems via a reasonable amount of experimentation. Those having skill in the art will recognize that examples of such other devices and/or processes and/or systems might include—as appropriate to context and application—all or part of devices and/or processes and/or systems of (a) an air conveyance (e.g., an airplane, rocket, helicopter, etc.), (b) a ground conveyance (e.g., a car, truck, locomotive, tank, armored personnel carrier, etc.), (c) a building (e.g., a home, warehouse, office, etc.), (d) an appliance (e.g., a refrigerator, a washing machine, a dryer, etc.), (e) a communications system (e.g., a networked system, a telephone system, a Voice over IP system, etc.), (f) a business entity (e.g., an Internet Service Provider (ISP) entity such as Comcast Cable, Qwest, Southwestern Bell, etc.), or (g) a wired/wireless services entity (e.g., Sprint, Cingular, Nextel, etc.), etc.

In certain cases, use of a system or method may occur in a territory even if components are located outside the territory. For example, in a distributed computing context, use of a distributed computing system may occur in a territory even though parts of the system may be located outside of the territory (e.g., relay, server, processor, signal-bearing medium, transmitting computer, receiving computer, etc. located outside the territory).

A sale of a system or method may likewise occur in a territory even if components of the system or method are located and/or used outside the territory.

Further, implementation of at least part of a system for performing a method in one territory does not preclude use of the system in another territory.

All of the above U.S. patents, U.S. patent application publications, U.S. patent applications, foreign patents, foreign patent applications and non-patent publications referred to in this specification and/or Listed in any Application Data Sheet, are incorporated herein by reference, to the extent not inconsistent herewith.

One skilled in the art will recognize that the herein described components (e.g., operations), devices, objects, and the discussion accompanying them are used as examples for the sake of conceptual clarity and that various configuration modifications are contemplated. Consequently, as used herein, the specific exemplars set forth and the accompanying discussion are intended to be representative of their more general classes. In general, use of any specific exemplar is intended to be representative of its class, and the non-inclusion of specific components (e.g., operations), devices, and objects should not be taken Limiting.

Although user 118 is shown/described herein as a single illustrated figure, those skilled in the art will appreciate that user 118 may be representative of a human user, a robotic user (e.g., computational entity), and/or substantially any combination thereof (e.g., a user may be assisted by one or more robotic agents) unless context dictates otherwise. Those skilled in the art will appreciate that, in general, the same may be said of "sender" and/or other entity-oriented terms as such terms are used herein unless context dictates otherwise.

With respect to the use of substantially any plural and/or singular terms herein, those having skill in the art can

translate from the plural to the singular and/or from the singular to the plural as is appropriate to the context and/or application. The various singular/plural permutations are not expressly set forth herein for sake of clarity.

The herein described subject matter sometimes illustrates different components contained within, or connected with, different other components. It is to be understood that such depicted architectures are merely exemplary, and that in fact many other architectures may be implemented which achieve the same functionality. In a conceptual sense, any arrangement of components to achieve the same functionality is effectively "associated" such that the desired functionality is achieved. Hence, any two components herein combined to achieve a particular functionality can be seen as "associated with" each other such that the desired functionality is achieved, irrespective of architectures or intermedial components. Likewise, any two components so associated can also be viewed as being "operably connected", or "operably coupled," to each other to achieve the desired functionality, and any two components capable of being so associated can also be viewed as being "operably couplable," to each other to achieve the desired functionality. Specific examples of operably couplable include but are not limited to physically mateable and/or physically interacting components, and/or wirelessly interactable, and/or wirelessly interacting components, and/or logically interacting, and/or logically interactable components.

In some instances, one or more components may be referred to herein as "configured to," "configurable to," "operable/operative to," "adapted/adaptable," "able to," "conformable/conformed to," etc. Those skilled in the art will recognize that "configured to" can generally encompass active-state components and/or inactive-state components and/or standby-state components, unless context requires otherwise.

While particular aspects of the present subject matter described herein have been shown and described, it will be apparent to those skilled in the art that, based upon the teachings herein, changes and modifications may be made without departing from the subject matter described herein and its broader aspects and, therefore, the appended claims are to encompass within their scope all such changes and modifications as are within the true spirit and scope of the subject matter described herein. It will be understood by those within the art that, in general, terms used herein, and especially in the appended claims (e.g., bodies of the appended claims) are generally intended as "open" terms (e.g., the term "including" should be interpreted as "including but not limited to," the term "having" should be interpreted as "having at least," the term "includes" should be interpreted as "includes but is not limited to," etc.). It will be further understood by those within the art that if a specific number of an introduced claim recitation is intended, such an intent will be explicitly recited in the claim, and in the absence of such recitation no such intent is present. For example, as an aid to understanding, the following appended claims may contain usage of the introductory phrases "at least one" and "one or more" to introduce claim recitations. However, the use of such phrases should not be construed to imply that the introduction of a claim recitation by the indefinite articles "a" or "an" limits any particular claim containing such introduced claim recitation to claims containing only one such recitation, even when the same claim includes the introductory phrases "one or more" or "at least one" and indefinite articles such as "a" or "an" (e.g., "a" and/or "an" should typically be interpreted to mean "at least one" or "one or more"); the same holds true for the use of

definite articles used to introduce claim recitations. In addition, even if a specific number of an introduced claim recitation is explicitly recited, those skilled in the art will recognize that such recitation should typically be interpreted to mean at least the recited number (e.g., the bare recitation of "two recitations," without other modifiers, typically means at least two recitations, or two or more recitations). Furthermore, in those instances where a convention analogous to "at least one of A, B, and C, etc." is used, in general such a construction is intended in the sense one having skill in the art would understand the convention (e.g., "a system having at least one of A, B, and C" would include but not be limited to systems that have A alone, B alone, C alone, A and B together, A and C together, B and C together, and/or A, B, and C together, etc.). In those instances where a convention analogous to "at least one of A, B, or C, etc." is used, in general such a construction is intended in the sense one having skill in the art would understand the convention (e.g., "a system having at least one of A, B, or C" would include but not be limited to systems that have A alone, B alone, C alone, A and B together, A and C together, B and C together, and/or A, B, and C together, etc.). It will be further understood by those within the art that typically a disjunctive word and/or phrase presenting two or more alternative terms, whether in the description, claims, or drawings, should be understood to contemplate the possibilities of including one of the terms, either of the terms, or both terms unless context dictates otherwise. For example, the phrase "A or B" will be typically understood to include the possibilities of "A" or "B" or "A and B."

With respect to the appended claims, those skilled in the art will appreciate that recited operations therein may generally be performed in any order. Also, although various operational flows are presented in a sequence(s), it should be understood that the various operations may be performed in other orders than those which are illustrated, or may be performed concurrently. Examples of such alternate orderings may include overlapping, interleaved, interrupted, reordered, incremental, preparatory, supplemental, simultaneous, reverse, or other variant orderings, unless context dictates otherwise. Furthermore, terms like "responsive to," "related to," or other past-tense adjectives are generally not intended to exclude such variants, unless context dictates otherwise.

While various aspects and embodiments have been disclosed herein, other aspects and embodiments will be apparent to those skilled in the art. The various aspects and embodiments disclosed herein are for purposes of illustration and are not intended to be limiting, with the true scope and spirit being indicated by the following claims.

What is claimed is:

1. A system comprising:

at least one dispenser container including at least:

- one or more dosages of at least one pharmaceutical agent; and
- one or more machine-readable passcodes that enable computer authorization for access to at least one portion of at least one digital therapy application; and

at least one mobile device that includes at least:

- a display;
- memory;
- a wireless communication unit; and
- a processor component, which processor component is configured to read the one or more machine-readable passcodes to access the at least one portion of the at

least one digital therapy application to perform operations including at least:

outputting at least one indication to administer at least one dosage of the at least one pharmaceutical agent from the at least one dispenser container to address at least one health condition;

implementing, in temporal coordination with the at least one indication to administer the at least one dosage of the at least one pharmaceutical agent, at least some digital therapy content to address one or more effects of the at least one pharmaceutical agent; and

altering the at least some digital therapy content based at least partly on input associated with an individual.

2. A computer process for controlling a system that includes at least one dispenser container including at least one or more dosages of at least one pharmaceutical agent and machine-readable authorization data that enables access to at least one portion of at least one digital therapy application; and at least one mobile device that includes a display, memory, a wireless communication unit, and a processor component, which processor component is configured to use the machine-readable authorization data to access the at least one portion of the at least one digital therapy application to perform operations comprising:

outputting at least one indication to administer at least one dosage of the at least one pharmaceutical agent from the at least one dispenser container to address at least one health condition;

implementing, in temporal coordination with the at least one indication to administer the at least one dosage of the at least one pharmaceutical agent, at least some digital therapy content to address one or more effects of the at least one pharmaceutical agent; and

altering the at least some digital therapy content based at least partly on input associated with an individual.

3. The computer process for controlling a system of claim 2, wherein the at least one mobile device comprises any of a head-mounted stereoscopic display, a smartphone, a personal digital assistant, a portable music player, a laptop, a notebook computer, an enterprise digital assistant, or a pager.

4. The computer process for controlling a system of claim 2, wherein the machine-readable authorization data comprises any of a code, digital data stored on computer readable media, an internet address, or a password.

5. The computer process for controlling a system of claim 2, wherein the machine-readable authorization data enables at least one of the following types of access to the at least one portion of the at least one digital therapy application: online access, storage media access, or computer program access.

6. The computer process for controlling a system of claim 2, wherein the outputting at least one indication to administer at least one dosage of the at least one pharmaceutical agent from the at least one dispenser container to address at least one health condition comprises:

outputting at least one indication to administer at least one dosage of the at least one pharmaceutical agent from at least one of the following types of dispenser containers to address at least one health condition: an administration unit, a nasal administration unit, an intravenous administration unit, or packaging.

7. The computer process for controlling a system of claim 2, wherein the outputting at least one indication to administer at least one dosage of the at least one pharmaceutical

agent from the at least one dispenser container to address at least one health condition comprises:

outputting at least one indication to administer at least one of the following types of dosages of the at least one pharmaceutical agent from the at least one dispenser container to address at least one health condition: pill or capsule.

8. The computer process for controlling a system of claim 2, wherein the outputting at least one indication to administer at least one dosage of the at least one pharmaceutical agent from the at least one dispenser container to address at least one health condition comprises:

outputting at least one indication to administer at least one dosage of at least one of the following types of pharmaceutical agents from the at least one dispenser container to address at least one health condition: psychiatric medication, analgesic, antacid, antiarrhythmic, antibacterial, antibiotic, anticoagulant, thrombolytic, anticonvulsant, antidiarrheal, antiemetic, antifungal, antiallergic agent, antihistamine, antihypertensive, anti-anginal, anti-asthmatic, anti-inflammatory, antineoplastic, antipyretic, antiviral, anti-ulcer agent, antidyspeptic, beta-blocker, bronchodilator, cold treatment, corticosteroid, antitussive, cytotoxic agent, decongestant, diuretic, expectorant, hormone, hypoglycemic, immunosuppressive, laxative, muscle relaxant, sedative, female sex hormone, male sex hormone, tranquilizer, appetite modulator, vitamin, antiparalytic, antimanic, antineuralgic, anti-dyskinesia agent, antispasmodic, antiadrenergic, antimuscarinic, neuromimetic agent, neuromuscular agent, antianxiety agent, antipsychotic, antidepressant, mood stabilizer, stimulant, anxiolytic, hypnotic, sleeping agent, opioid, attention deficit disorder medication, neurodegeneration medication, blood pressure medication, stress medication, withdrawal medication, diet medication, obesity medication, isolation medication, or erectile dysfunction medication.

9. The computer process for controlling a system of claim 2, wherein the outputting at least one indication to administer at least one dosage of the at least one pharmaceutical agent from the at least one dispenser container to address at least one health condition comprises:

outputting at least one indication to administer at least one dosage of the at least one pharmaceutical agent from the at least one dispenser container to address at least one of the following types of health conditions: pain, depression, phobia, anxiety disorder, personality disorder, psychotic disorder, developmental disorder, panic disorder, bipolar disorder, schizophrenia, eating disorder, obsessive compulsive disorder, post-traumatic stress disorder, attentional disorder, communication disorder, social disorder, mood disorder, addiction, hypertension, sweating, dizziness, lightheadedness, abnormal respiration, headache, fatigue, nausea, fever, abnormal heart rhythm, motor weakness, abnormal heart rate, disease, illness, bodily impairment, cardiovascular disorder, digestive disorder, endocrine disorder, hearing disorder, immune disorder, inner ear disorder, integumentary disorder, lymphatic disorder, muscular disorder, nervous system disorder, reproductive disorder, respiratory disorder, skeletal disorder, visual disorder, or urinary disorder.

10. The computer process for controlling a system of claim 2, wherein the outputting at least one indication to administer at least one dosage of the at least one pharma-

ceutical agent from the at least one dispenser container to address at least one health condition comprises:

outputting via at least one display at least one indication to administer at least one dosage of the at least one pharmaceutical agent from the at least one dispenser container to address at least one health condition.

11. The computer process for controlling a system of claim 2, wherein the outputting at least one indication to administer at least one dosage of the at least one pharmaceutical agent from the at least one dispenser container to address at least one health condition comprises:

outputting via wireless communication at least one indication to administer at least one dosage of the at least one pharmaceutical agent from the at least one dispenser container to address at least one health condition.

12. The computer process for controlling a system of claim 2, wherein the implementing, in temporal coordination with the at least one indication to administer the at least one dosage of the at least one pharmaceutical agent, at least some digital therapy content to address one or more effects of the at least one pharmaceutical agent comprises:

implementing, in temporal coordination with the at least one indication to administer the at least one dosage of the at least one pharmaceutical agent, at least one of the following types of digital therapy content to address one or more effects of the at least one pharmaceutical agent: game, online game, online educational experience, networked game, single player game, virtual reality, virtual world, social networking application, tutorial, assistant, or music.

13. The computer process for controlling a system of claim 2, wherein the implementing, in temporal coordination with the at least one indication to administer the at least one dosage of the at least one pharmaceutical agent, at least some digital therapy content to address one or more effects of the at least one pharmaceutical agent comprises:

implementing, at one or more of the following times relative to the at least one indication to administer the at least one dosage of the at least one pharmaceutical agent, at least some digital therapy content to address one or more effects of the at least one pharmaceutical agent: staggered, overlapping, different, or alternating.

14. The computer process for controlling a system of claim 2, wherein the implementing, in temporal coordination with the at least one indication to administer the at least one dosage of the at least one pharmaceutical agent, at least some digital therapy content to address one or more effects of the at least one pharmaceutical agent comprises:

implementing, at one or more times that are based at least partly on a pharmacological profile of the at least one pharmaceutical agent, at least some digital therapy content to address one or more effects of the at least one pharmaceutical agent.

15. The computer process for controlling a system of claim 2, wherein the implementing, in temporal coordination with the at least one indication to administer the at least one dosage of the at least one pharmaceutical agent, at least some digital therapy content to address one or more effects of the at least one pharmaceutical agent comprises:

implementing, in temporal coordination with the at least one indication to administer the at least one dosage of the at least one pharmaceutical agent, at least some digital therapy content to at least one of complement, supplement, enhance, ameliorate, overcome, or reduce one or more effects of the at least one pharmaceutical agent.

16. The computer process for controlling a system of claim 2, wherein the implementing, in temporal coordination with the at least one indication to administer the at least one dosage of the at least one pharmaceutical agent, at least some digital therapy content to address one or more effects of the at least one pharmaceutical agent comprises:

implementing, in temporal coordination with the at least one indication to administer the at least one dosage of the at least one pharmaceutical agent, at least one of the following types of digital therapy content to address one or more effects of the at least one pharmaceutical agent: text, audio, or visual.

17. The computer process for controlling a system of claim 2, wherein the altering the at least some digital therapy content based at least partly on input associated with an individual comprises:

altering by at least one of modifying, adding, or deleting at least a portion of the at least some digital therapy content based at least partly on input associated with an individual.

18. The computer process for controlling a system of claim 2, wherein the altering the at least some digital therapy content based at least partly on input associated with an individual comprises:

altering the at least some digital therapy content based at least partly on application usage history associated with an individual.

19. The computer process for controlling a system of claim 2, wherein the altering the at least some digital therapy content based at least partly on input associated with an individual comprises:

altering the at least some digital therapy content based at least partly on user input associated with an individual.

20. The computer process for controlling a system of claim 2, wherein the outputting at least one indication to administer at least one dosage of the at least one pharmaceutical agent from the at least one dispenser container to address at least one health condition comprises:

outputting at least one indication to administer at least one dosage of a pain medication from at least one container to address a pain condition,

wherein the implementing, in temporal coordination with the at least one indication to administer the at least one dosage of the at least one pharmaceutical agent, at least some digital therapy content to address one or more effects of the at least one pharmaceutical agent includes, but is not limited to implementing a virtual world application for pain distraction in temporal coordination with the at least one indication to administer the at least one dosage of the pain medication.

21. A dispenser container comprising:

one or more dosages of at least one pharmaceutical agent; and

machine-readable authorization data that is readable by at least one mobile device to enable the at least one mobile device to access at least one portion of at least one digital therapy application to cause the at least one mobile device to perform operations comprising:

outputting at least one indication to administer at least one dosage of the at least one pharmaceutical agent from the dispenser container to address at least one health condition;

implementing, in temporal coordination with the at least one indication to administer the at least one dosage of the at least one pharmaceutical agent, at

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least some digital therapy content to address one or more effects of the at least one pharmaceutical agent; and
 altering the at least some digital therapy content based at least partly on input associated with an individual. 5
22. A mobile device comprising:
 a display;
 memory;
 a wireless communication unit; and
 a processor component, which processor component is configured to obtain machine-readable authentication data to execute at least one portion of at least one digital therapy application to perform operations including at least:
 outputting at least one indication to administer at least one dosage of the at least one pharmaceutical agent from at least one dispenser container to address at least one health condition; 15
 implementing, in temporal coordination with the at least one indication to administer the at least one dosage of the at least one pharmaceutical agent, at least some digital therapy content to address one or more effects of the at least one pharmaceutical agent; and 20
 agent; and

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altering the at least some digital therapy content based at least partly on input associated with an individual.
23. A mobile device comprising:
 a display;
 memory;
 a wireless communication unit; and
 a processor component, which processor component is configured to perform operations including at least:
 outputting at least one indication to administer at least one dosage of at least one pharmaceutical agent from at least one dispenser container to address at least one health condition;
 implementing, in temporal coordination with the at least one indication to administer the at least one dosage of the at least one pharmaceutical agent, at least some digital therapy content to address one or more effects of the at least one pharmaceutical agent; and
 altering the at least some digital therapy content based at least partly on input associated with an individual.

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专利名称(译)	组合治疗选择方法和系统		
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摘要(译)

描述了包括接受至少一个个体的至少一个属性的方法，计算机程序产品和系统，至少部分地基于所述至少一个属性查询至少一个数据库，从所述至少一个数据库中选择至少一个处方药物和至少一种人工感官体验，用于解决至少一个人的至少一个属性，和/或至少部分地基于从中进行选择来呈现至少一种处方药和至少一种人工感官体验的指示。所述至少一个数据库中的至少一种处方药和至少一种人工感官体验来解决至少一个人的至少一个属性。

