

/ (100) /
 (102) . (102)
 (102) (104) , (108), (110),
 / (112), (114), (1160) /
 가 가
 (114) , 가

1

,
 .
 50 가 65
 (痛風), , 1% 가 , 65 2% 5% 가 (狼瘡),
 100가 가
 welling), , (redness), (s
 , 가 ,
 가 가
 , (erythrocyte sedimentation rate) C- 가 (C - reactive protein level)
 MRI ,
 , 가 가
 가 가
 가 " 0 가 10 10 가
 ?" (clinometric scale)
 가 가

가

(reproducibility) 가 (plastic protractor) 가

CRP(C - reactive protein) 가

가 가 가 가 가 가 가 가 가 가

ion rate) (ESR - erythrocyte sedimentat (vertical glass) 가 가

가 (sickled blood cell), ESR 가 가 가 (全身)

가 CRP 가 CRP(C - reactive protein level) 가 가

가 5가 가

(plain X - rays) (plain radiograph) X - r
가 X - ray 가

(Computer Tomography - CT) MRI

CT
.CT MRI

MRI

가

가

가

가 가

가

가

가

3

/

/

/

(thermographic type),

(thermistor)

/

/

/

/

/

/

/

/

/

/

1 /

2 1

3 1 /

/ 1 , ,

4 가 (guide track) 1

5 / (mechanical caliper)
1 ,

6 , 1 ,

7 가 1 ,

* *

100 : /

102 : 104 :

106 : 108 :

110 : 114 :

118 : 122 :

124 : 126 :

132 : 가 133 :

1 2 (100) / 가
 (P) / (L) (102)
 (102) (P) / (L) (104)
 (L) , (range - of - motion device)(106), /
 (108), / (L) (P) (S)
 (110), (112),
 (114), (116)

2 / (P)가 / (L)가 (100)
 (102) / (L)
 (104) (118)
 2
 3 (104)
 가 (thermography)

1 2 가 , (104) (102)
 (118) (118) (104)
 L) / ()
 (114) (116)

, (104) (102) (118)
 (104) (L) (118)
 (122) (118)
 (114) (104) (114)
 (L) / (L)
 (beam spot pattern)
 (114)

, (104) (118)
 (102) (118)
 (L) 4 (104) (L)
 (118) (124)
 (118) (126) (104)
 (118) (114) , (L)
 / (114)
 (116)

MRI (L) (116) / (118) MRI (114)
가

(104)
가
(cuff), / (sleeve) (wrap),

(133) 2 5 (104) (133)
(126) (L) (133) (126) (L) (133)
3 / (100) / (L) (114)
/ 가 / 가 / 가

1 2 (106) (104) 가
(114) (104)
(L) (106)가 (104)
가 (114)

6 / (L) (P) / (108)가 1
(108) (102) (118) (P)
/ (118) (L)
(L) 가 (108) (L)
(114) (108) (116)

(108) (102) (118)
L) (P) (S) (L) (108)
(108) (L) (108)
(L) (108)
(114) (102) (11)

8) (104) (P) (L) /
 (114) () (116)

1,2 6 / (L) (110)가
 (L) (118) (L) (118) (P) / (S) (102) (140)
 , (118) (L) (P) / (S) (110) (118) (P) / (1
 38) (118) (110) (118) (139) (L) /
 (110) (110) (L) /
 (L) (110) (L)
 (114) (114) (116)

(118) (P) / (S) (118)
 , 가 ,
 (Seebeck)

(lead conductor) , (118)

가 (118)

(S) 가 1 2 , 2 2 , 1 1 1
 , (P)

(polygraph system) (118) / / 가 . 가
 가 / /
 (114)

(110)

/ 가 .

1 7 9112)가 .
 , (102) (L) (P) , (S)
 (dolorimeter) (142) . (142) (L) (P) (S)
 가 , (sleeve), (pincher)
 (L) (142) 가
 (P)가 (triggering device)() ,
 (142) (114)

(142) 가 , (102) (142)
 가 (metal tip) . (L)
 가 (P)가 ()
 (L) (P)가 (112)
 (114) (116)

(142) (L) (P) , (102) (142)
 가 (P)가 (L)
 (112) , (114)
 (116)

, 가

/
 / , /
 5가 , 가 , ' ' ' /

/ , / 가

, 가 .

, , / , , .

가

/ , 가 가 가 .

(57)

1.

/ 가

2.

1 , .

3.

1 , / .

4.

1 , / .

5.

4 , , , , , , , .

6.

1 , / .

7.

6 , , , , , , , .

8.

1 , /

9.

8 , .

10.

8 , , , .

11.

1 , /

12.

11 , , , (thermistor) , ,
(thermographic type), , , .

13.

1 , / / /

14.

1 , / ,가 , .

15.

1 , / .

16.

1 , / .

17.

1 , .

18.

/

,

,

.

19.

18 ,

20.

18 , /

21.

18 , /

22.

18 , /

23.

18 , /

24.

18 , /

25.

18 , / / /

26.

18 , /

27.

18 , /

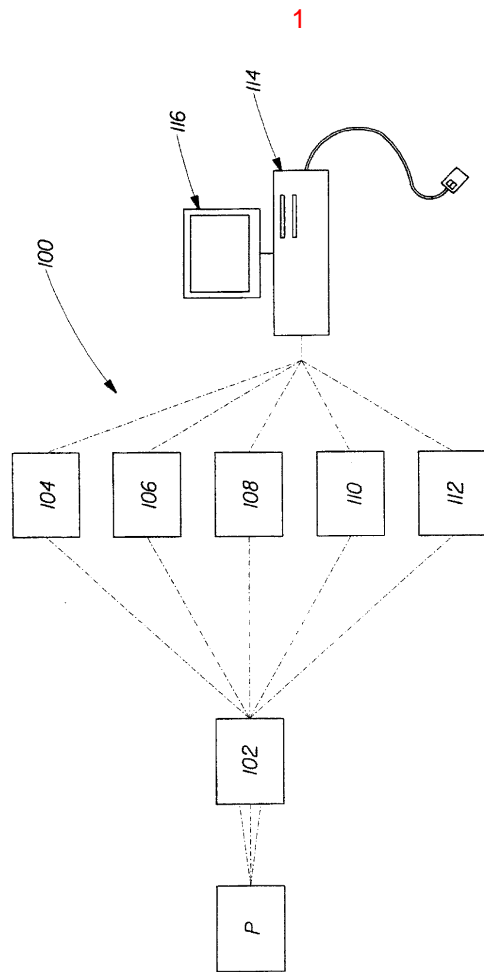
28.

18 ,

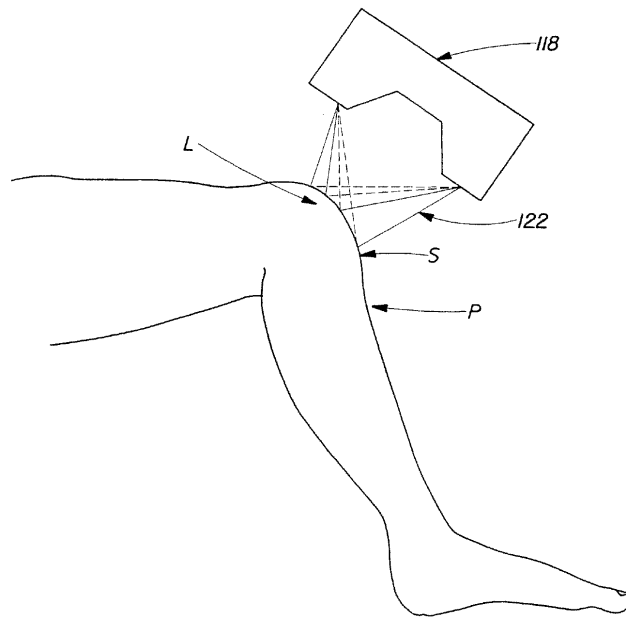
29.

/ / 가

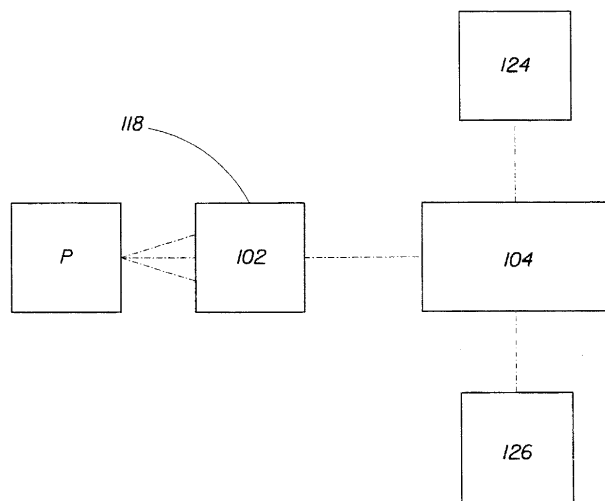
/ / , ,



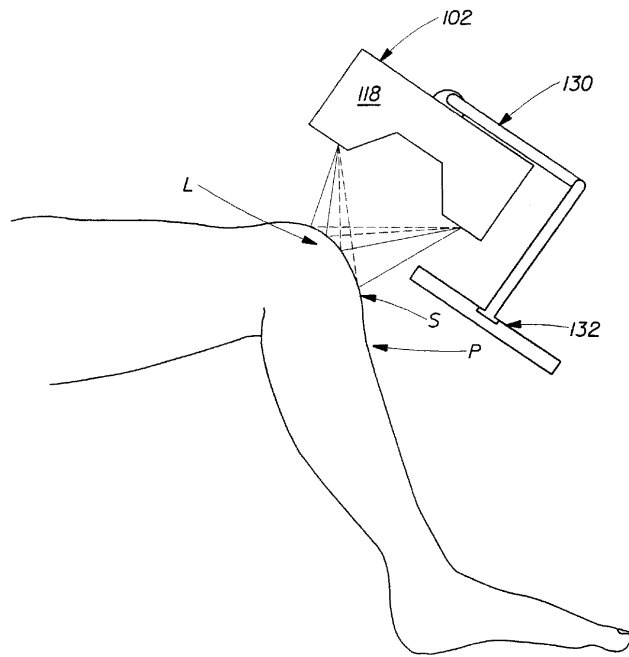
2



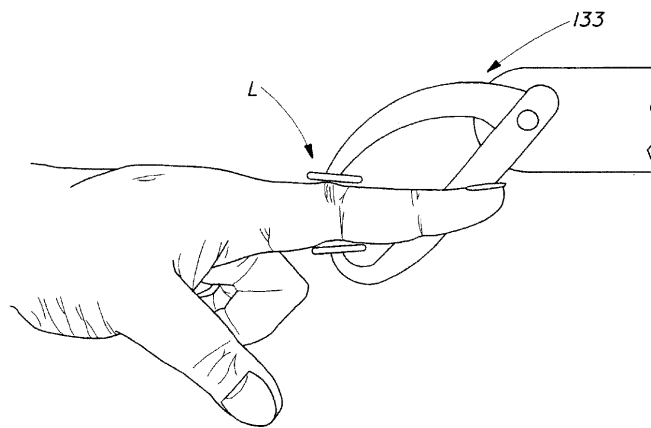
3



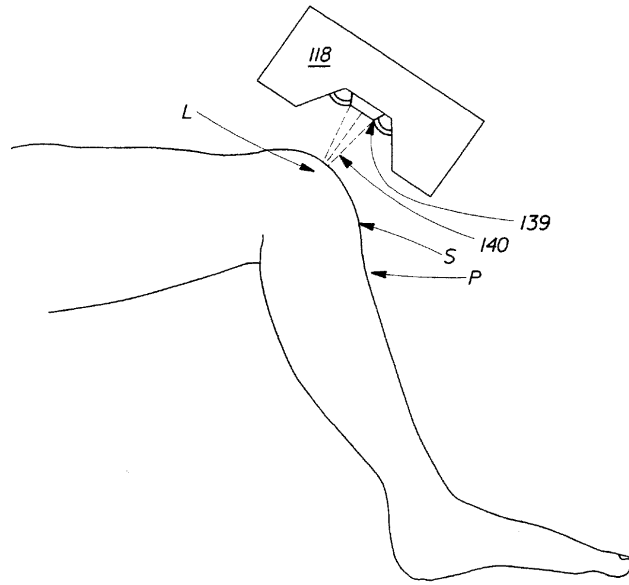
4



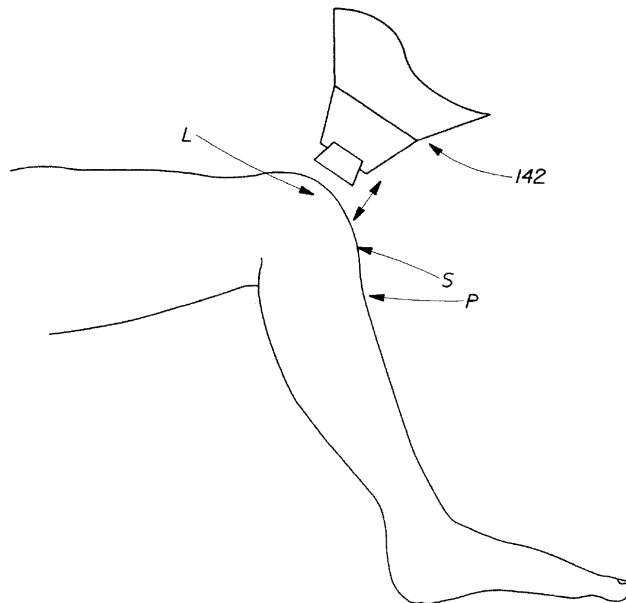
5



6



7



专利名称(译)	关节和组织的炎症和量化		
公开(公告)号	KR1020020077400A	公开(公告)日	2002-10-11
申请号	KR1020027009734	申请日	2001-01-29
[标]申请(专利权)人(译)	THOMSON PAULê 汤姆森保罗		
申请(专利权)人(译)	汤姆森, 保罗.		
[标]发明人	THOMSON PAUL E 툼스폴이		
发明人	툼스, 폴, 이.		
IPC分类号	G01R33/28 A61B5/00 A61B5/01 A61B5/055 A61B5/103 A61B5/11 A61B8/08 G01J5/10 G01N21/27 G01N21/57		
CPC分类号	A61B5/01 A61B5/411 A61B5/4261 A61B5/441 A61B5/4528 A61B5/4824		
代理人(译)	Gangseokyeong 강명구		
优先权	60/178872 2000-01-29 US		
其他公开文献	KR100789305B1		
外部链接	Espacenet		

摘要(译)

用于检测和定量本发明的关节和组织炎症的装置和方法 (100) 包括用于获取和收集指示关节或组织的表面或尺寸的数据的感测部件 (102)。感测部件 (102) 包括用于获得炎症的主要体征的测量的各种部件。优选地, 感测部件 (102) 包括用于检测肿胀的装置 (104), 颜色分析装置 (108), 温度测量装置 (110), 疼痛或压痛检测装置 (112), 档案和检索装置 (114) 和显示装置 (116)。在操作中, 将患者置于适当位置以检查关节或组织区域, 测量在关节或组织区域处发生炎症的一个或多个基本体征, 将测量值自动存储在档案储存和取回装置 (114), 并且从测量中得出可以与基线进行比较的炎症评分。©KIPO & WIPO 2007

