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(54) **Ultrasonic surgical instruments**

(57) An ultrasonic surgical instrument (1) comprises an ultrasonic transducer (12) producing ultrasonic vibration, a transmission member (30) connected to the ultrasonic transducer (12) at a proximal end, and transmitting ultrasonic vibration produced by the ultrasonic transducer (12) from the proximal end to the distal end, a sheath (20) in which the transmission member (30) is inserted, a procedural unit (31, 33, 42) provided to the distal end of the transmission member (30) so that it projects from the distal end of the sheath (20), and treating a surgical target portion using ultrasonic vibration transmitted from the transmission member (30), a procedural unit main

body (31b, 33b, 42b) provided in the procedural unit (31, 33, 42), and treating the surgical target portion, a procedural member (21, 44) provided in the sheath (20) so that it projects from the distal end of the sheath (20) to treat the surgical target portion, and a procedural member main body (21a, 4.9a) provided at the distal end of the procedural member (21, 44) to treat the surgical target portion. In the ultrasonic surgical instrument (1), the procedural member main body (21a, 44a) overlaps with the procedural unit main body (31b, 33b, 42b), and thereby, the procedural member main body (21a, 44a) and the procedural unit main body (31b, 33b, 42b) treat the surgical target portion.

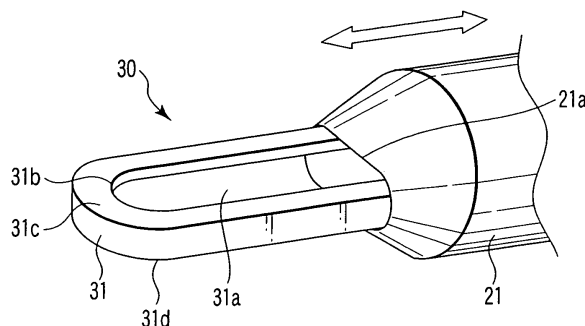


FIG. 5



EUROPEAN SEARCH REPORT

Application Number
EP 09 00 5173

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The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 19 November 2009	Examiner Cornelissen, P
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

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EPO FORM 1503 03.82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
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专利名称(译)	超声波手术器械		
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优先权	61/073899 2008-06-19 US		
其他公开文献	EP2135570A2 EP2135570B1		
外部链接	Espacenet		

摘要(译)

超声波手术器械 (1) 包括产生超声波振动的超声波换能器 (12) , 在近端连接到超声波换能器 (12) 的传输构件 (30) , 以及由超声波换能器 (12) 产生的超声波振动器远端的近端, 插入传动构件 (30) 的护套 (20) , 设置在传动构件 (30) 的远端的程序单元 (31,33,42) , 使其突出从护套 (20) 的远端开始, 并利用从传动构件 (30) 传递的超声波振动来处理手术目标部分, 手术单元主体 (31b, 33b, 42b) 设置在手术单元 (31,33,42) 中, 并且处理手术目标部分, 设置在护套 (20) 中的程序构件 (21,44) 使得其从护套的远端突出 (20) 治疗手术目标部分, 以及设置在手术构件 (21,44) 远端的手术构件主体 (21a, 4.9 a) , 以治疗手术目标部分。在超声波手术器械 (1) 中, 手术构件主体 (21a, 44a) 与手术单元主体 (31b, 33b, 42b) 重叠, 从而, 手术构件主体 (21a, 44a) 与手术构件主体 (21a, 44a) 重叠单元主体 (31b, 33b, 42b) 处理手术目标部分。

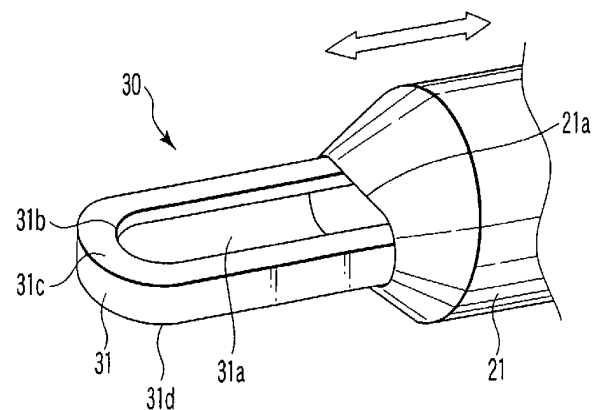


FIG. 5