

(19)
(12)

(KR)
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2003 02 26

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(22) 2003 01 16
2003 01 16
(86) PCT/SE2001/01626
(86) 2001 07 16

(87) WO 2002/05897
(87) 2002 01 24

(30) 0002678 - 1 2000 07 17 (SE)

(71) 가 3 (:216 16)

(72) , , ,
- 22731 35

(74)

(54) -

1

가 (therapeutic ultrasound transducer),
(temperature focus) (nucleus pulposus)
(ultrasound field)) .

(intervertebral disc) , (anulus fibrosus)
간판, 외연

(chemonucleolysis),
(hygroscopicity),
(proteoglycan),
(sciatica),
75%,
%,
(ambulatory).

(thermotherapy)
(soft tissue) , (remote spot)
가 ,
가 (5,291,890 5,501,655).
(0 872 262).

, 5,980,504 r) 0	IDET). (5,785,705 0	가 15	(cannula) 가 (heating element)	가 9	6,073,051 , 6,007,570 (cathete (spool)
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, , , 가	가 , ,	가	. .	가	. .
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(thermal effect)) , . 가 ,	가 , , () , ,	. , () , ,	. , . .	. , . .	(musculoskeletal tissues) 가 . .
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1

1

2 1

3 1

1 (1) () (3)
, (4) (5), (6)
. (2) , 3 ()
position transmitter; 7)

(10) . (11) (2) (12) (13) (8) (9) (8) (membrane - like wall; 13) (11)

$$(12) \quad , \quad (15) \quad (11) \quad (17) \quad (9) \quad . \quad (11) \quad (12) \quad (16) \quad (11)$$

, (2) (6) , (5) (6) .

(1) . (18) (18) (18) (2)가 (5), (18), (18) 1 (19) (19) (dorsolaterally)

(1) (2) (optical navigating device; 20)
 (5,772,594). (20) (24) (22)
 (23) (21)
 (21) 90 ° (intermediate angle) (22)
 (23) 2 (24) X - (25)
 (20) , X - (25) - -
 (24) (2) (25) - -
 (021,343 , 5,834,759 , 5,383,454). () 6,

(40) (2) , (5)

(57)

1.

- ,
 (5) (2) , (2) (3) (2) (4) (10) (2) (4) (5) (F)
 (6) , (6) (2) (2) (8) (13) , (8)
 (8)

6) (20) , (20) (5) (21) (22) , (23) (20) (32) (31, 7) (32) /
 , (31, 7) , (31, 7)

a) (5) (6) (28) ,

b) (22) (2) 가 (32) (31, 7) (31, 7) ((2) ,

2) (13) (G) , (G) (G) (2) 가 (18) (11) 가 ,
 (G) (14) , (14) (5) (8)

2.

1 ,

(12) (11)

3.

2 ,

(12)

4.

1 3

(14) (13)

5.

4

$$\begin{array}{cccc}
 (14) & (13) & (5) & (8) \\
 (13) & & (13) &
 \end{array}$$

6.

1 5

(5) 18), , (18) (2)가 (20) (

7.

1 6

(21) X - (25)

8.

7

$$(27) \quad (26) \quad , \quad (26) \quad (24)$$

$$(22) \quad (23) \quad (4) \quad (5)$$

9.

8

$$(24) \quad 2 \qquad \qquad \qquad \times - \qquad \qquad \qquad (25) \qquad \qquad \qquad (23) \quad 2 \qquad \qquad \qquad \times -$$

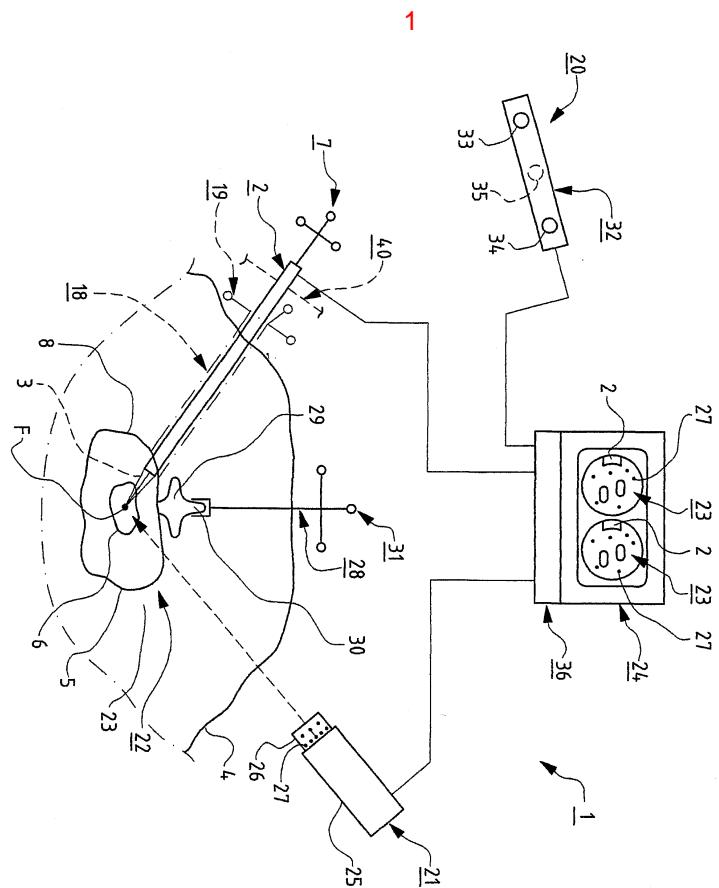
10.

1 5

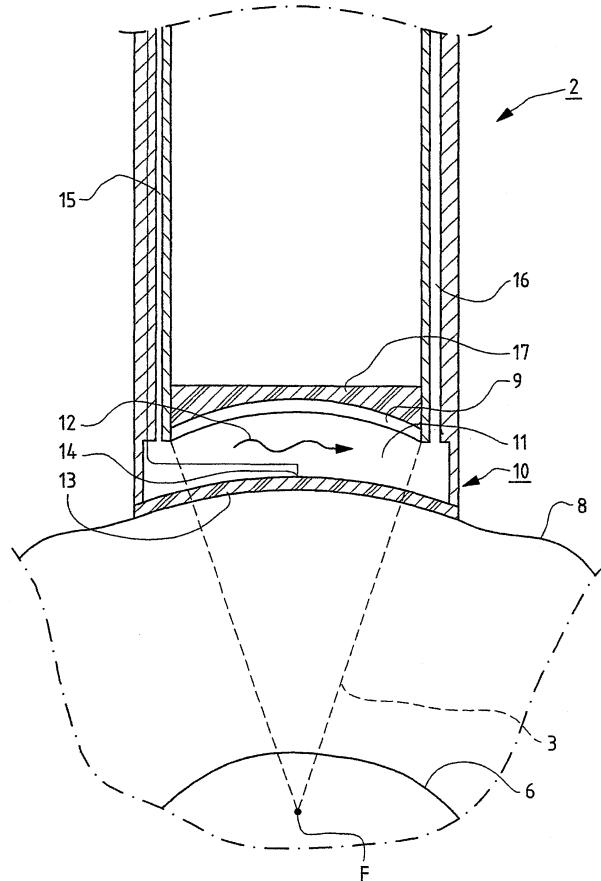
(CT) , (21) (4) (5) () (23) (24) 3D - 가

11.

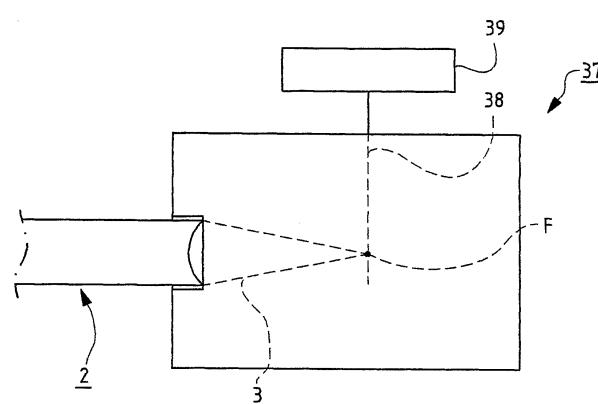
- 1 10 ,
(32) , (7, 3
1)
- 12.
- 1 11 ,
(2) (F) 45
- 13.
- 1 12 ,
(2) (F) (2)
(2) (G) (F) /
↗ (26)
- 14.
- 1 13 ,
(28) (vertebral column) (29) (29) (30)
- 15.
- 1 14 ,
(28) (31)
- 16.
- 15 ,
(20) (32) X -



2



3



专利名称(译)	药物Dis-		
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申请号	KR1020037000681	申请日	2001-07-16
[标]申请(专利权)人(译)	乌尔特拉佐尼克斯DNT股份公司		
申请(专利权)人(译)	超祖尼克斯二烯的AB		
当前申请(专利权)人(译)	超祖尼克斯二烯的AB		
[标]发明人	LIDGREN LARS AKE ALVAR		
发明人	LIDGREN,LARS,AKE,ALVAR		
IPC分类号	A61F7/00 A61B6/00 A61B17/00 A61B6/12 A61B19/00 A61B6/03 A61B8/00 A61N7/02 A61B17/56 A61B18/00		
CPC分类号	A61N7/02 A61B2018/00023 A61B6/12 A61B2017/00084 A61B19/5244 A61B2019/5255 A61B2019/5272 A61B2017/00261 A61B19/5212 A61B34/20 A61B90/361 A61B2034/2055 A61B2034/2072		
优先权	0002678 2000-07-17 SE		
其他公开文献	KR100867311B1		
外部链接	Espacenet		

摘要(译)

本发明涉及用于椎间盘疾病的侵入式超声治疗的装置。该装置包括用于治疗的超声换能器(治疗超声换能器:2)，其中用于治疗的超声换能器(2)产生超声场(超声场:3)，其中温度焦点(温度焦点:F)是定位在盘(5)中用于加热患者的椎间盘(5)被固化。在用于治疗的超声换能器(2)中，超声发射器元件优选地与椎间盘(5)接合在纤维环(8)中，其可以通过患者(4)的皮肤插入，包括配备的柔性壁。至少一个的冷室(11)包括最靠近超声换能器(2)的组织，用于在超声发射器元件和冷却剂之间进行处理，超声发射器元件(9)被冷却。并且包括至少一个温度传感器(14)，其优选地测量盘(5)的纤维环(8)的温度。

