

2003 - 0016412
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- 1 -

eutic ultrasound transducer; 2) , (2) 가 (therap
 ature focus;F) (5) (ultrasound field; 3) (temper
 (8) , (2) (4) , (5)
 가
 (2) 가 가 (G)
 (11)가 , (5) (8)
 (14) .

1

가 (therapeutic ultrasound transducer)
 (temperature focus) (nucleus pulposus)
 (ultrasound field))
 (intervertebral disc) , (annulus fibrosus)
 가
 ,
 (prolapsed) 1930 (bulging disc) /
 가
 (chemonucleolys) ,
 (hygroscopicity) (proteoglycan)
 (sciatica)
 75%
 1%
 , (ambulatory)

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

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

가 가 . ,
 , 가 , , 가 .
 , 가 .

(thermal effect) . (musculoskeletal tissues) (.
) 가 가 , , 가 .
 가 가 , 가 가 .
 . () () 가 .
 가 , 가 가 .
 , 가 가 .

1
 .
 , .
 .

1 .

2 1 .

3 1 .

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

(2) (4) (5) (8)
(6) , 가
(6) 가 . (2)
(8) (5) , (F)
(3) . (2) (9) ,
(2) 가 가
(5,964,791).

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

(2) / (14)
(2) , (F)
(13) (14) (13)
(13) (13) (8) (13)

(12) , (15) (11) (16)
(11) (11) . (12) (11)
(17) (9)
(2) (6) , (5)
가 (6)
6) .

(1) (18) (19), 3 (19)
(18) (18) (2)가 (5) (dorsolaterally)
(18) 1

(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) (6,
021,343 , 5,834,759 , 5,383,454).

X - (25) (calibrating device; 26), (calibrating hood) X -
 (25) 가 (marker; 27) 가 (27)

(20) (reference device; 28) (28) (29) (spinous process; 30) (31) 가
 22) (28) (31), 3 (31)

가, (20) / (32)
 (2) (28) (7, 31) / (32) (7, 31)
 (33, 34) (35)

(7, 31) (33, 34)
 가

(1) (2) (F) (37)
 (37) (thermoelement; 38) (38) (39)
 (F) 가

(5) (6) (28) (4) (29)
 (2) (30)

2 X - (4) (5) (23) X - (24)
 X - (5) (28) (26) (27)

(5), (6) (2) / (32)
 (24) X - (navigation)
 (2) (7)가 (32)
 (33, 34) (2) (3)
 (F) (5) (6) (F)
 45

(4)가 (2)

(5)

(21) (23) (computerized tom
 ography; CT) 가 (24) 3D -

(40) (2) , (5)

(57)

1.

- ,

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

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

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

b) (22) (2) 가 (
 2) ,

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

2.

1 ,

(12) (11) .

3.

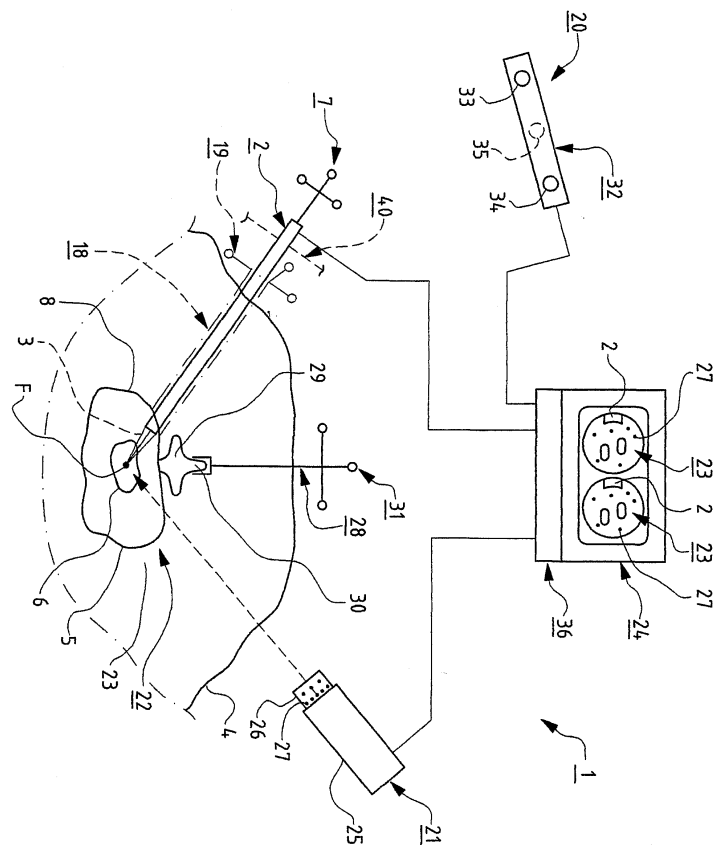
2 ,

(12) .

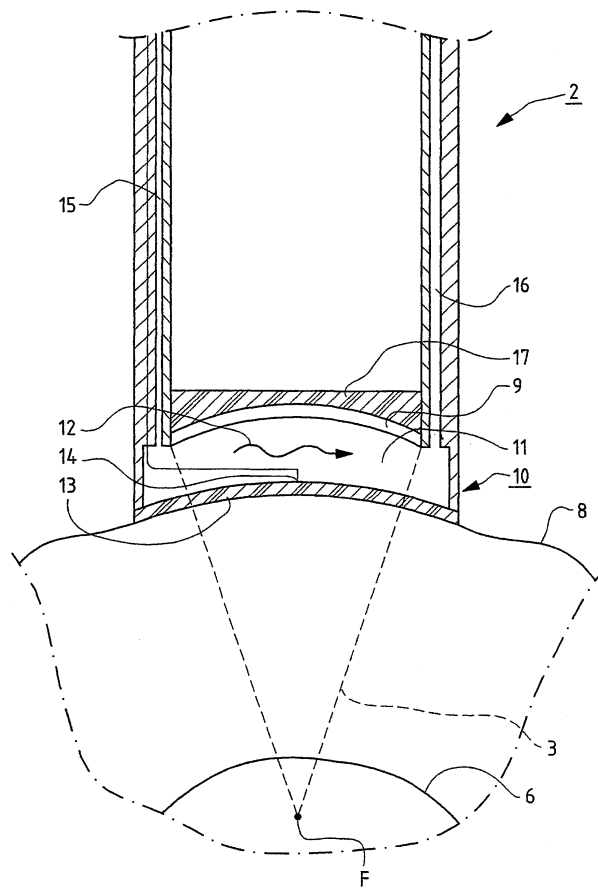
4.

1. 3, (14) (13) .
- 5.
- 4, (14) (13) (5) (8) (13) (13) .
- 6.
- 1 5, (5) (20) (18) , (18) (2)가 () .
- 7.
- 1 6, (21) X - (25) .
- 8.
- 7, X - (22) (27) (23) (26) , (4) (26) (5) (24) .
- 9.
- 8, (24) 2 X - (25) (23) 2 X - .
- 10.
- 1 5, (21) (4) (5) (23) (CT) , (24) 3D - 가 .
- 11.

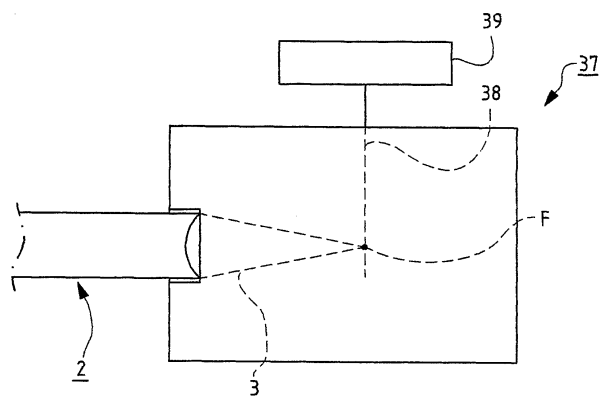
1 10 ,
(32) , (7, 3
1)
12.
1 11 ,
(2) (F) 45 .
13.
1 12 ,
(2) (F) (2) /
(2) (G) (F) (26)
가
14.
1 13 ,
(28) (vertebral column) (29) (29) (30)
15.
1 14 ,
(28) (31)
16.
15 ,
(20) (32) X -



2



3



专利名称(译)	药物Dis-		
公开(公告)号	KR1020030016412A	公开(公告)日	2003-02-26
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。

