

(19)  
(12)(KR)  
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(43)2003 - 0009224  
2003 01 29(21) 10 - 2002 - 0042714  
(22) 2002 07 20

(30) 09/910,326 2001 07 20 (US)

(71) 53188 3000

(72) 53589 200

53713 2981

53544 1878

(74)

:

(54) /

/ (10) (18) , 1 2 1  
(24,26) .

1

1 가  
/ ,

2 , 1  
 ,  
 3 1 ,  
 4 ,  
 5 , 5 - - 5 .

10 : 14 :  
 18 : 20 :  
 26 : 32 :  
 36 : 44 :  
 62 : 78 :

(quantitative ultrasound equipment) ,  
 (separate transmission modes) (ultrasonic transducer)

가 , (trabecular)  
 (body member) 가 ,  
 , (os calcis)

가 , ,  
 " Ultrasonometer Employing Distensible Membrane

s" 6,027,449 .

가 , 가  
 (positioning) (single receiving transducer)  
 (detect) (array) 가 가

y scale) , (pixel) (region of interest)

(multi - path interference)

가

(localized) , (source) 가 1 , 2

가

(aperture) /

1 2

1 2 (a) 1 , (b) 1 2

(circular) (annular)

1 가

(a) 가 1 (b) 가 1 2

1 1 2

가

1, / (10) 가 (14)

(footwell) (14) (housing) (12) (12)

가 가 (1) )

/ (16) (coupling)

(compliant bladders) (22) (18) (20) (

14) (22) (18) (14)

(20)

2, (18) (outer) (26)

(24) , (piezoele

ctric)

(dividing kerf)

(24) 25 nm 가

90 nm

1 (24,26) (retain) (28) (28)

, (34)

(24,26) (34) (24,26)

(32) (32) ,

5, (24) (26)

(24) (36) , (24) (26)

, (24) (24) (38)

(26)

(20) (grid) (40)

(42) (leads) (44)

(42) , (44)

(40) (20)

3, / (10) (46) 가 (50) (52)

(48) 가 (18) (20) , (

52) (52) (52) (

46) (52) (48) (48)

/ (16) (46) (34)

(34) (pumps) (54) (48)

4 , (52) , (60) 1 ,  
 (48) (36,38)가 (24,26)  
 (62)( 3 5 ) ( 가  
 (24,26) ).

4 , (63) , (48) (38) ( 가  
 (26) ) (62) , (20)(  
 (outer wave) (26) . , (outer) ( 62)  
 5 ) (outer) (40" ) (outer) (

4 , (66) , (48) (36) ( 가  
 (24) ) (68) , (20)( 5 )  
 (40' ) (68)

(66) , (48)  
 (BUA) (SOS),  
 (20) (40) ( )  
 / (16) , ,

1 , (60)  
 (66) .

(refine) , (63) 가  
 가, (inner) (24) (24)  
 , (26) , 3  
 , (quantitative information) .

(40' ) (40" )  
 (63) (developed)  
 가  
 (40' ) / (24) (14) 가  
 (shims) (17) (stage)

(48) (70) / (16)

5 , (62) (72)  
(trabecular)  
가 (40') (26) , (72) (76)  
(74) (24) (40') (80)

(40) (20) (76)

(18) , 가 (excitable) (develop)

가

(57)

1.

1 (aperture) (14) ,

2 (18) - 가  
(20)  
1 2 (24,26) , - ,

(b) (quantitative data) (a) 1 ,  
1 2 (alternately)  
(48)

/ (imaging/quantitative) (10).

2.

1 ,

1 2  
1

/ (10).

3.

1 ,  
 가 1 2 (simultaneous transmission)  
 1 1  
 ,

/ (10).

4.

1 ,  
 가 1 2 1 2  
 ,

/ (10).

5.

1 ,  
 (circular) 1 2  
 (co - axial annular)

/ (10).

6.

5 ,  
 가 가

/ (10).

7.

1 ,  
 (receiving element) (array)

/ (10).

8.

1 ,

가,

(a)

가

1

1

, (b)

가

1 2

1 2

/ (10).

9.

8 ,

(16) ,

가

1 2

1  
ty measurement)

(quantitative bone quali

/ (10).

10.

1 ,

가

/ (10).

11.

1 ,

/ (10).

12.

1 ,

(14)

,

(os calcis of human foot)

/ (10).

13.

1 ,

가

가

(positioning means)(17)



/ (10).

14.

가

2

(18) -

1

2

(24,26)

-

1

(20)

,

(a)

1

(b)

1

2

(vivo bone)

.

15.

14

,

가 ,

1

2

.

16.

15

,

가

가

.

17.

14

,

.

18.

14

,

(a)

가

1

1

, (b)

가

1

2

1

2

.

19.

14 ,

(16)

1

2

.

20.

14 ,

가

.

21.

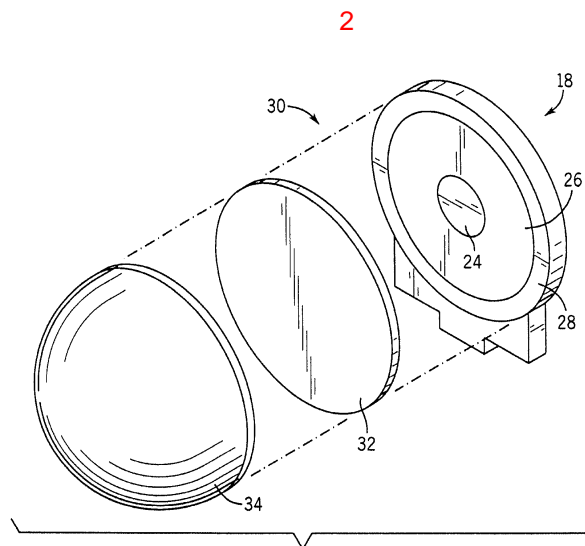
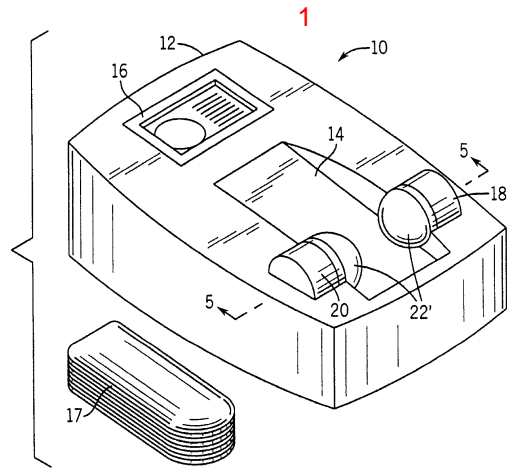
14 ,

.

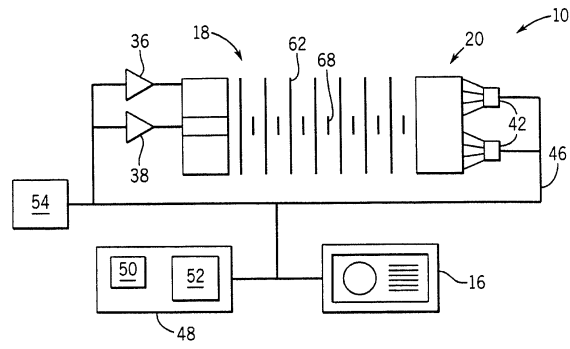
22.

14 ,

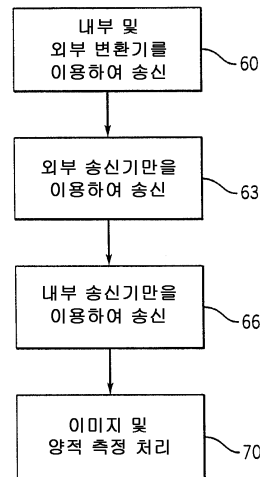
.



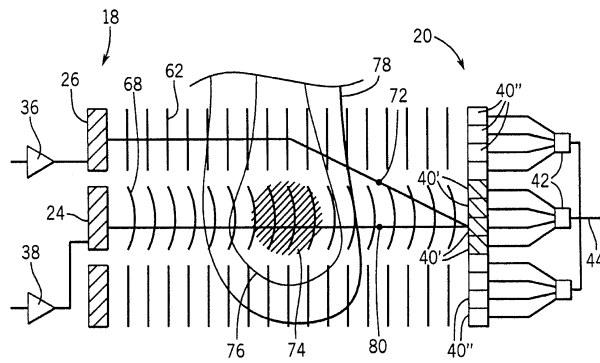
3



4



5



专利名称(译)	提供成像/定量超声装置和活骨的定量和图像数据的方法		
公开(公告)号	<a href="#">KR1020030009224A</a>	公开(公告)日	2003-01-29
申请号	KR1020020042714	申请日	2002-07-20
申请(专利权)人(译)	지이메디컬시스템즈글로벌테크놀로지컴파니엘엘씨		
当前申请(专利权)人(译)	지이메디컬시스템즈글로벌테크놀로지컴파니엘엘씨		
[标]发明人	MORRIS RICHARDFRANKLIN MORRIS STEVENTAYLOR 모리스스티븐테일러 KAUFMAN DUANEANTHONY 카우프맨두안안토니		
发明人	모리스리차드프랭클린 모리스스티븐테일러 카우프맨두안안토니		
IPC分类号	H04R1/24 A61B8/00 G01N29/06 A61B8/08 B06B3/04 G01N29/24		
CPC分类号	A61B8/0875 Y10S128/915 Y10S128/916		
代理人(译)	KIM, CHANG SE 张居正, KU SEONG		
优先权	09/910326 2001-07-20 US		
其他公开文献	KR100873565B1		
外部链接	<a href="#">Espacenet</a>		

#### 摘要(译)

第一种晶体，其中用于成像/公制的超声波装置（10）的超声波发射单元（18）单独操作于公制和同轴转换器晶体（24,26），其可独立地使用提供的第一和第二晶体操作提供了用于结构成像的非常宽范围的灯。

