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(12) (Y1)

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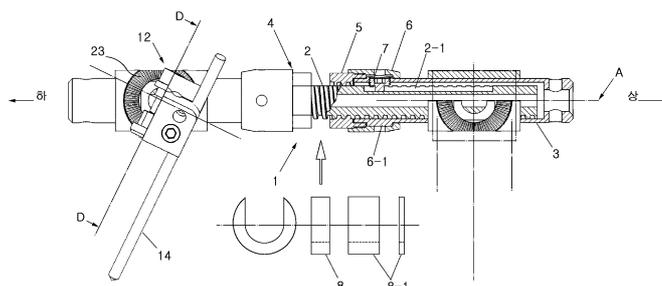
(73) 402 405

(72) 402 405

:  
가 :

(54)

) ( ) , ( ) , (Tibia, Femur, Forearm  
(伸延)  
(clamp) ;  
가 ; 가 (wrench) ;



Tibia: , Femur: , Forearm: :

- 1 1 .
- 2 2 1 A - A .
- 2 3 2 B - B .
- 3 4 (Tibia) .
- 3 5 .
- 3 6 .

( ) , ( ) , (Tibia, Femur, Forearm ) ( (伸延)

, EBI , Hoffman , Ilizarov .

EBI (pin clamp) 가 5cm ; Hoffman Ilizarov (eccentric pin) (housing) (筋力) (universal ball joint) 가 가 ; I 4 ;

(Tibia, Femur, Forearm ) ( (伸延) ; 가 ;

(clamp);

가 ; (wrench) ;  
가

B - B 1 ; 2 D - D ; 3 2

1 (3), (3) (14) (2) (13), (1) (13) (8)

2 (13) x, y, z z 가 (9) 3  
(12)

E) (14) (13) (14) 5 6mm ( (13) 1 4

(13) (13a) 가 (15) (13a)  
(13a) 가 (10)

가 . @ (15) (14) (13a) y (C,C') @  
□

(16) (15) x (B') (16) (10)  
x (17) (18)

3a) (13) (14) (17) (18) 가  
(15) (10) (14) (10)가 (14) (1)  
(13a) (14) 가 (13a) (18) (15) (14)

(13a) (13) (14) (14) 5

(18) (wrench)

(15) (10) (pin spanner)  
 (9)

(15) xy (21)가 y (C) ±45° y (C)  
 xy (21)

(15) (19) 가  
 (20) (19)가 (20)

xy (21) (tunnel) ( 2 2 ) y (C) (tu  
 nnel) (15) y (C) x (B') (tunnel) xz ( (24) x (B') (27)

(15) xy (21) (tunnel) (9) xy  
 (12) 가

(19) (15) xy (21) y (C) (tunnel)  
 (28) y (19) 가 ; xy  
 (21) x (B') (tunnel) x (B') xz (25) y (20)

x (B') xz (25) y (C) (19) (wre  
 nch) (28) y (9) x  
 z x, y, z

(15) xy (21)  
 (15) y (22)가 (12)  
 xy (21) y (22) x ; x  
 (B') x (23)가 xz (24) x

xz (24) (12) xz (25) z (26)  
 x (B') (27) 가 x (27) z (25)  
 z (26) z (26)

z (26) xz (25)가 (27)  
 (12) 가 ; z (A) (3)

z (26) xz (24) z xz (25)가 z  
 xz (25) (3) 가 xz (2) (4) z (3)

z (A) 가 (1) (4)가 (3) (2)가  
 가 (3) (6-1) (7)가  
 (3) (6-1) (5) (6)  
 가 (4) (5) (5) ( )  
 2) 가 (spanner) (pin)  
 (3) (5) (3)  
 spanner) (6) 3 (7)  
 (wrench) (2)  
 (2-1) z (2) (3) (2)  
 (7) (2-1) (3) z (3)  
 (2) 1 가 1~5mm (4)  
 1 1 U (8) (3)  
 (2) (5) (backlash)  
 (8) z 0.1mm~60mm (8-1)  
 가  
 (8) 가  
 4, 5, 6  
 3 4 (Tibia)  
 3 5  
 3 6  
 ( ) , (Tibia, Femur, Forearm ) ( ) ,  
 (伸延) , 가

(57)

1.

z ; xz ; z 가 x xy ; y  
(clamp);  
가  
가

2.

1 , 가 xz 가

3.

2 , 가

4.

1 , z z 가 xz  
가

5.

2 4 , xz 가 y  
z 가

6.

1 4 , z xz x y 가 H  
z x y

7.

5 , x xy y xz x  
x 가 yz

8.

1 7 , z y 가 xy  
□

9.

1 ,

z

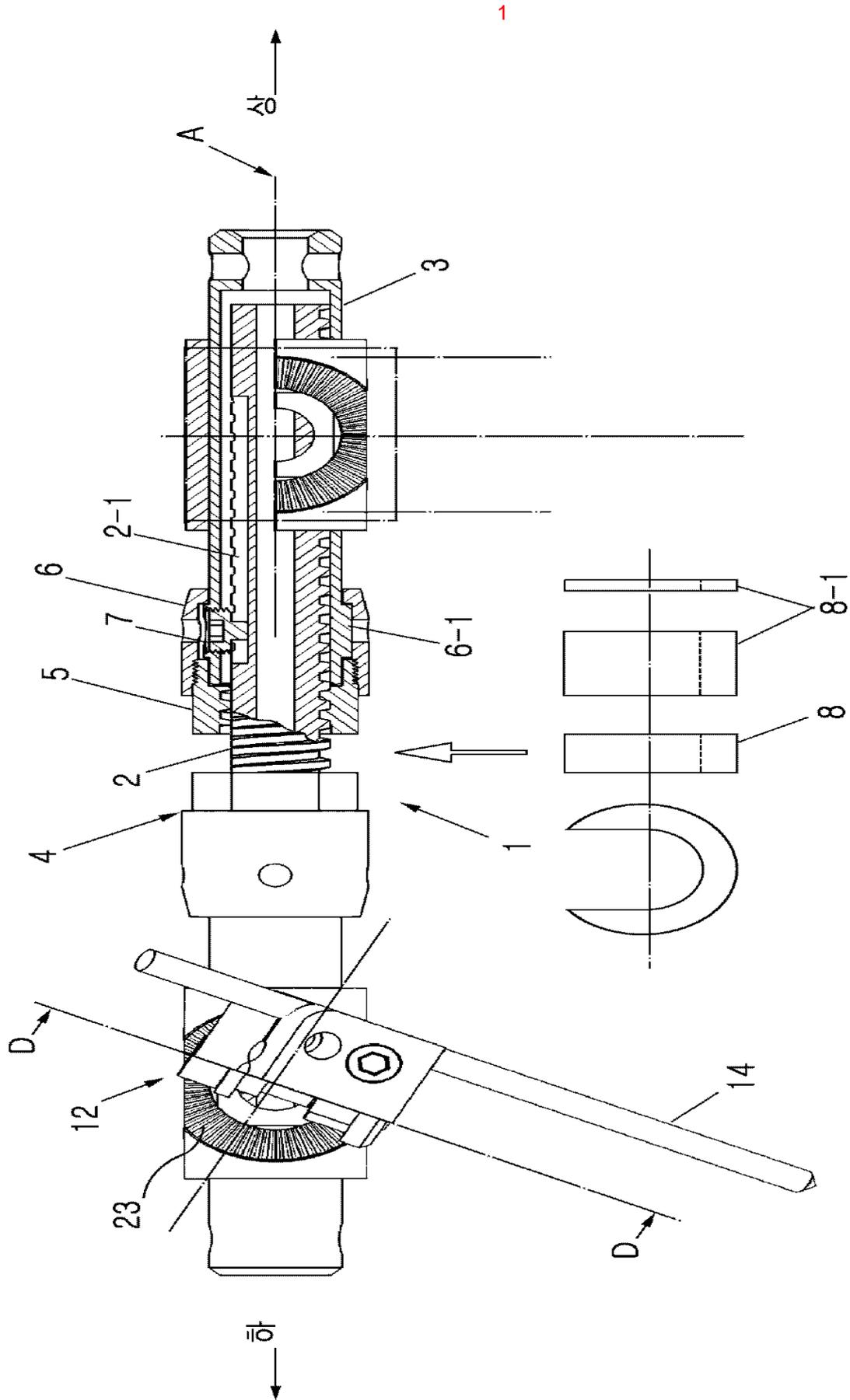
가 가  
가 .

10.

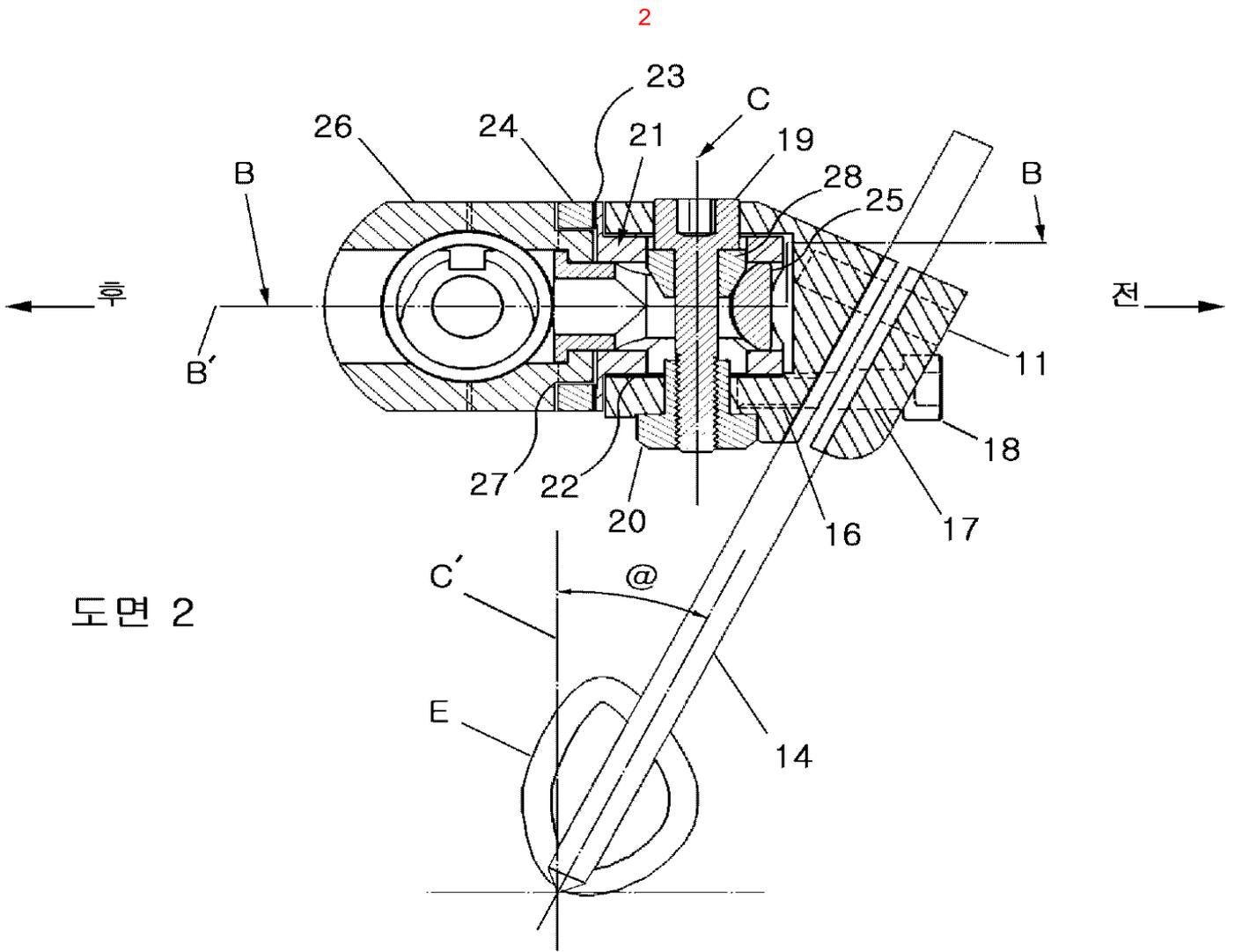
U<sup>1</sup> ,

가

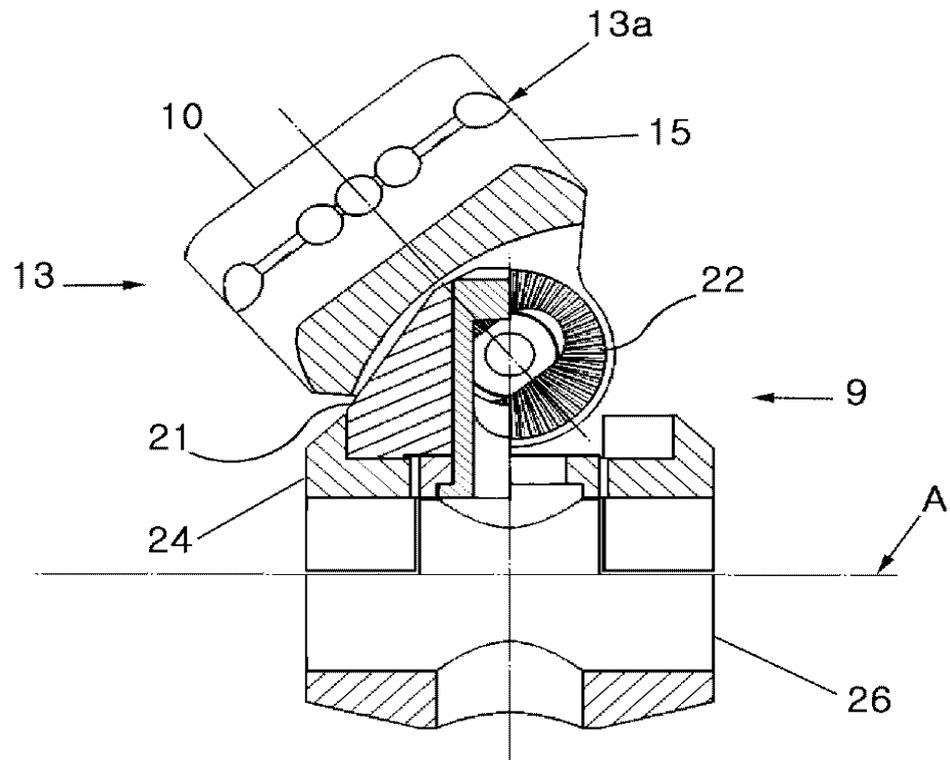
가 가 .



도면 1

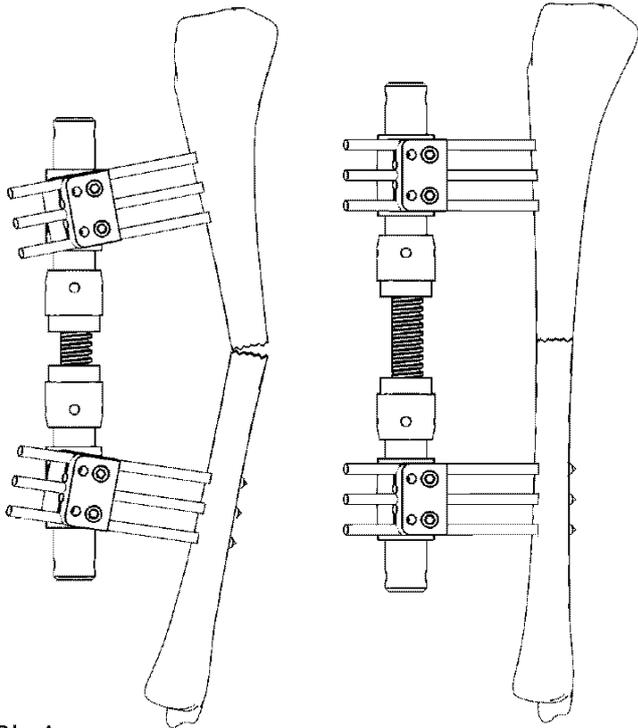


도면 2

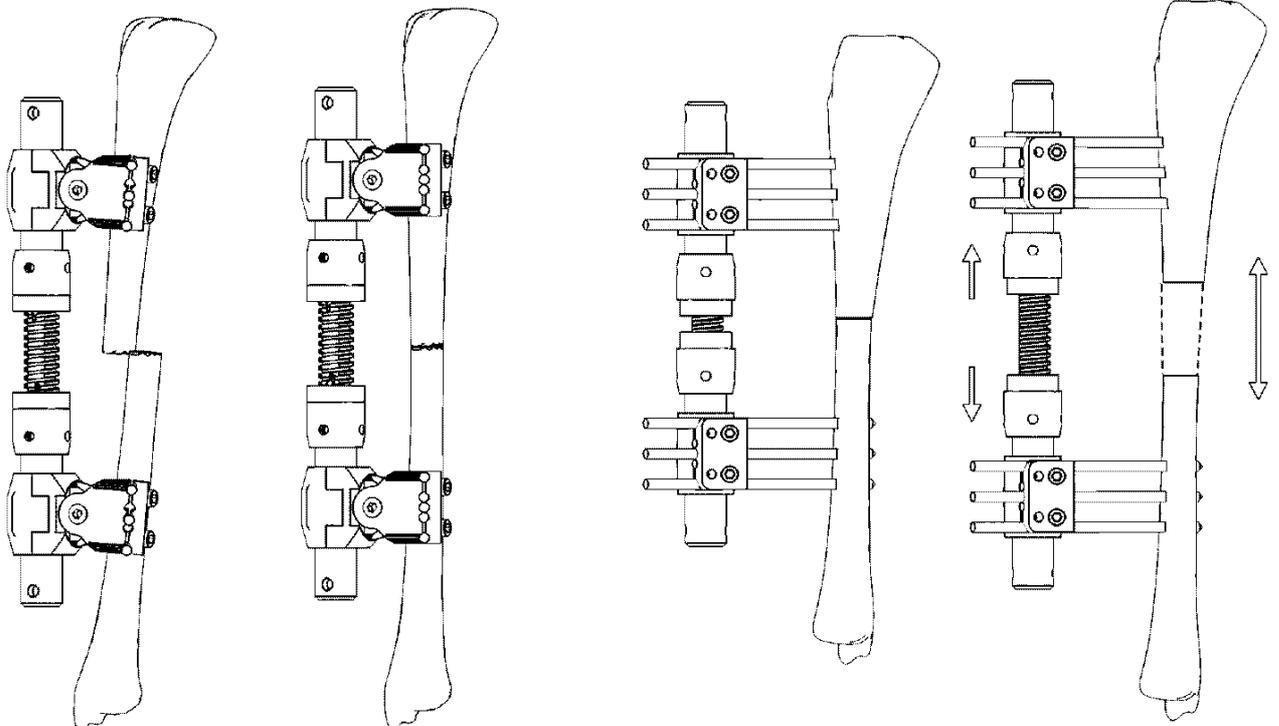


도면 3

3



도면 4



도면 5

도면 6