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(12) (A)

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(21) 10-2004-7001209
(22) 2004 01 27
 2004 01 27
(86) PCT/US2002/015888 (87) WO 2003/011356
(86) 2002 05 21 (87) 2003 02 13

(30) 60/308,380 2001 07 27 (US)

(71) , 07417-1880, 1

(72) 07004 44

10956 51

07450 261

10987 186

(74)

(54)

가 , , , ,
1 가 , , ,
2 가 . . .

| | | | |
|-------------|---|----------------------|---|
| | | (barrel) | 가 |
| | | 가 | |
| 가 | | 2 | |
| | | 가 (stopcock) 가 | |
| | | / | |
| | | 가 | |
| | | | |
| | | | |
| 3,402,713 | | (collar) | |
| , | | | |
| 2,711,171 | | (Dunnican) 가 | |
| , | | | |
| | | | |
| | | (bead) | 가 |
| , | | | |
| 가 | | | |
| | | | |
| | | (blasting) | 가 |
| 2 | | | |
| 5,312,377 | | | |
| , | | | |
| | | | |
| | | (stiffning insert)가 | |
| | | | |
| 가 | | 4,589,871 | |
| 5,851,201 | | , | |
| | | 6,217,560 B1 | |
| (texturing) | | | |
| | | | |
| 2,902,995 | 가 | 2,764,978 | |
| | | , | |
| | | 4,040,421 | |

9,781 , 4,676,530

4,36

The diagram illustrates a cross-section of a multi-shot slip connector. The top part shows the 'luer slip connector portion' with two gates (가) at the top. Below this, the 'shot molding' section is labeled '(shot molding)' and contains two gates (가). The middle section is labeled '(cannula)' and features two gates (가) with numbers 1 and 2 above them. The bottom section is labeled '(multi-shot)' and includes two gates (가) with numbers 1 and 2 above them. Numbered labels 1 through 7 are placed around the diagram to identify specific components: 1 is near the top left, 2 is below it, 3 is to the right of the first gate, 4 is below the second gate, 5 is to the left of the third gate, 6 is to the right of the fourth gate, and 7 is at the very bottom.

| | | |
|----|----|-------|
| 8 | 7 | 8-8 |
| 9 | | |
| 10 | 9 | 10-10 |
| 11 | | 2 |
| 12 | 11 | 12-12 |
| 13 | | 3 |
| 14 | 13 | 14-14 |
| 15 | | 4 |
| 16 | 15 | |
| 17 | 16 | 17-17 |
| 18 | | 5 |
| 19 | 18 | 19-19 |
| 20 | | 6 |
| 21 | 20 | 21-21 |
| 22 | | 7 |
| 23 | 22 | 23-23 |
| 24 | | 8 |
| 25 | 24 | |
| 26 | | |
| 27 | | |
| 28 | | 9 |
| 29 | 28 | |

| | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|---|---|------|---|
| (28) | 1 | 1 | 4 | 10 | 6 | . | 1 | 3 | . | (24) | 6 |
| | (22) | (22) | (20) | (26) | . | (24) | (24) | . | . | . | . |
| | | | | | (28) | | | | | | |
| | | | | | 가 | | | | | | 가 |

(24) (luer tip) , (male luer fitting) .

$$(26) \quad , \quad (22) \quad . \quad (20), \quad (20) \quad . \quad (28),$$

/ 가

(28) 3 (lumen) (36), , (40;lumen) 가 (38)

, (20) 가 . 가 (26),
 (36) , . 가 ,

가 (50) (46) . 6 , 7
가 (38) (50)
가 (42) (52)
가 (54) (52)
가 (38) (52) .
가 (52)

가

(28) 가 (24) 가

$$1 \quad , \quad (34)$$

가
가
가

28 29 9 , (866) (866) , (868) (834) (836)
 , , , (868) , (868) , (868)

가

가

가

(57)

1.

, , , , , 가 , , ; ;

가

가

가

2.

1 ,

3.

1 ,

가

4.

1 ,

가

5.

4 ,

56 60

6.

1 ,

7.

6

8.

7

9.

1

10.

9

11.

9

가

12.

9

가

13.

9

14.

13

56

60

15.

12

16.

1

가

가

가

,

17.

16

,

18.

가

1

;

가

2

,

가

2

;

,

가

;

,

,

,

,

가

,

,

,

;

1

2

19.

18

,

20.

18

,

,

가

21.

18

,

,

22.

18

,

,

23.

18

,

가

24.

23

,

25.

18

,

,

26.

22

,

,

27.

21

,

,

2 (two shot)

28.

27

,

,

29.

18

,

1

2

30.

1

;

1

2

;

1

가

,

,

,

;

2

가

2

;

31.

30

,

32.

30

,

2

가

33.

32

,

,

2

34.

32

1 가

2 가

35.

33

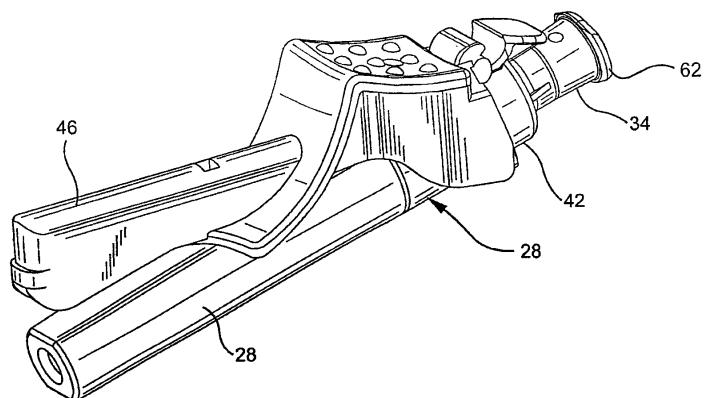
1 가 가

36.

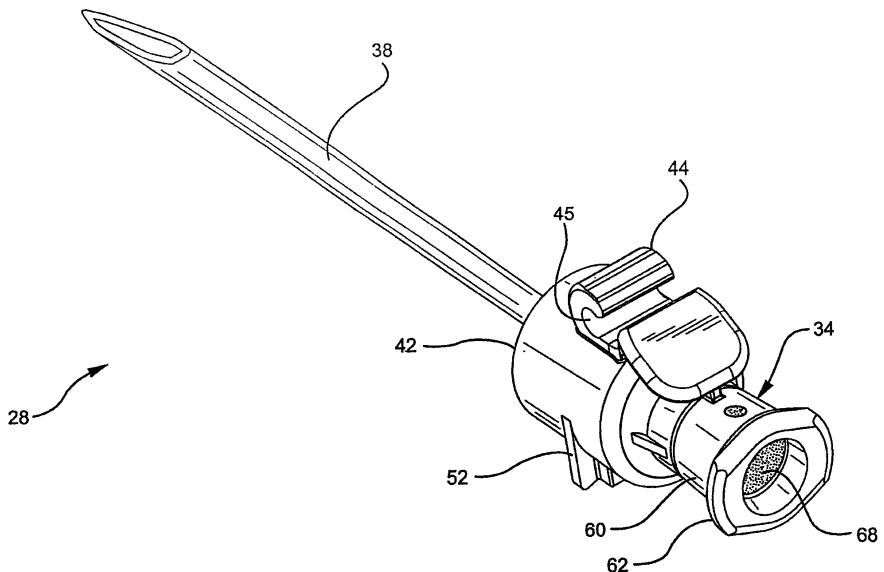
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가

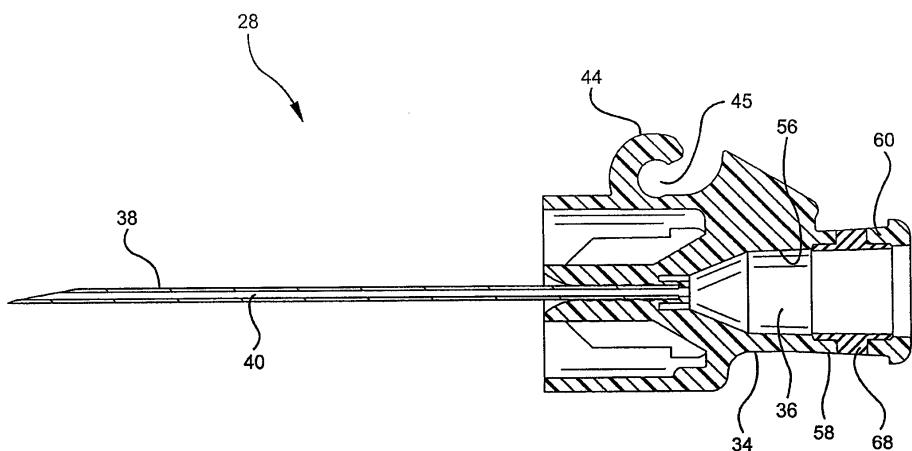
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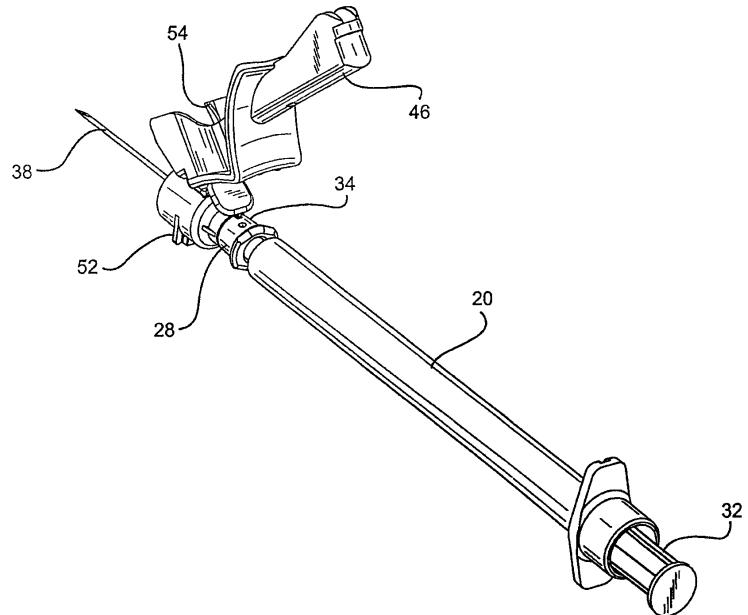
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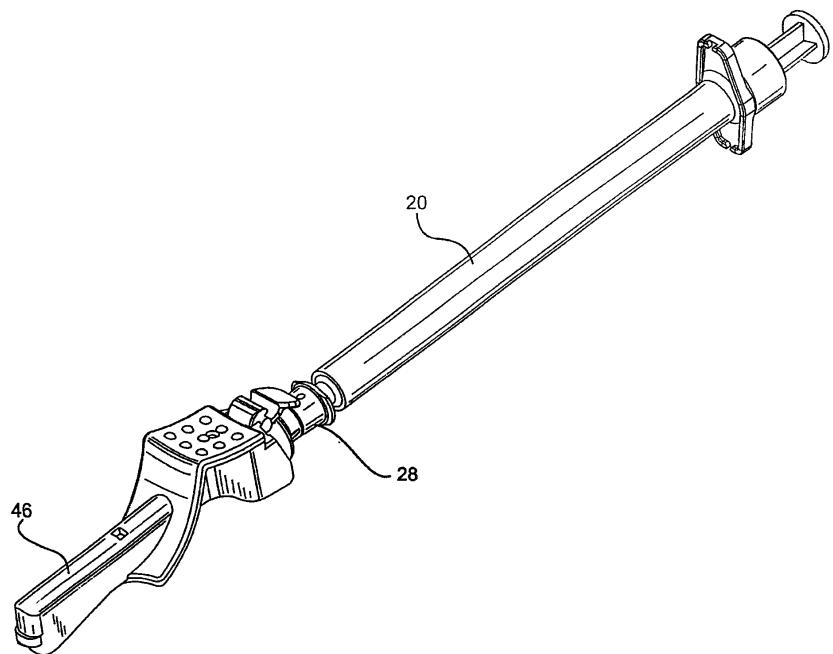
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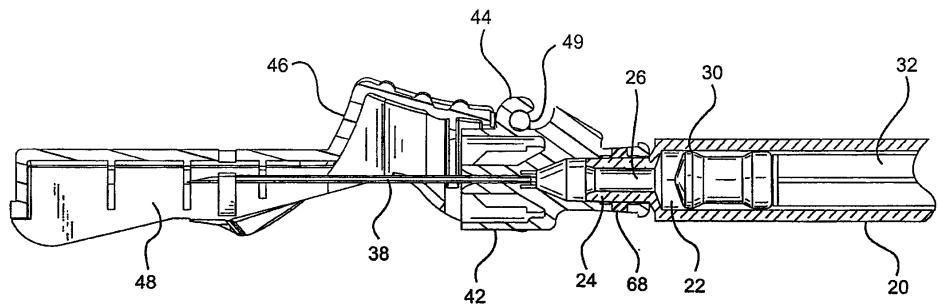
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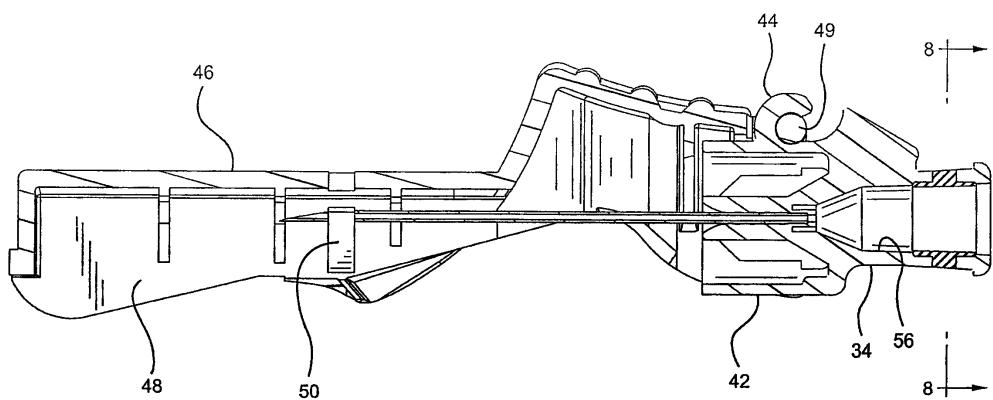
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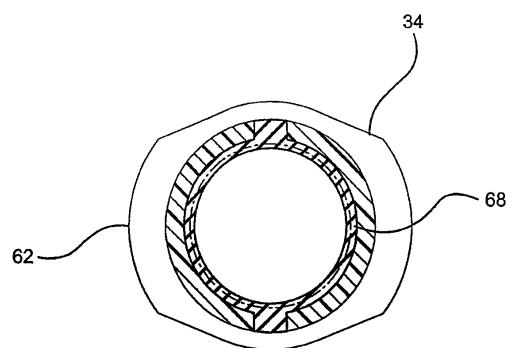
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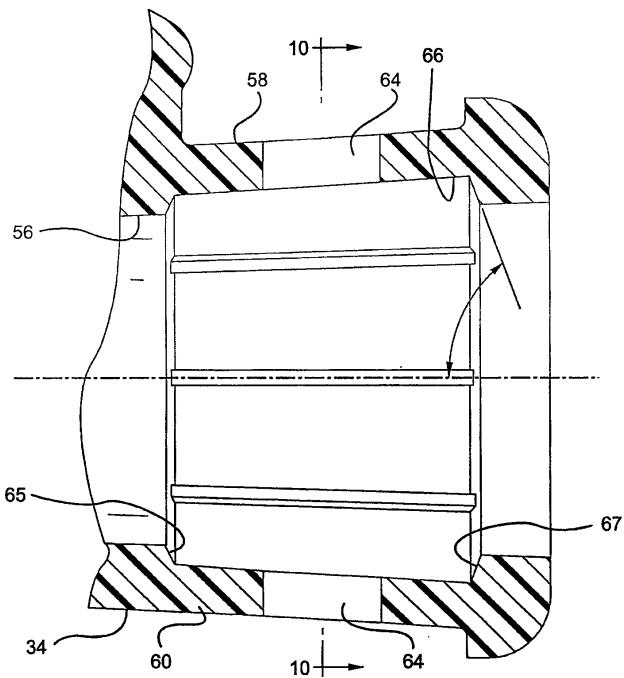
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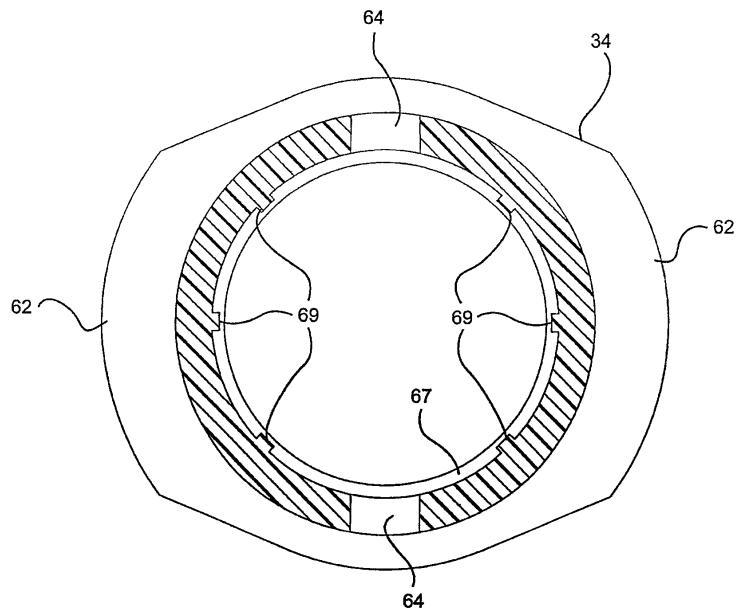
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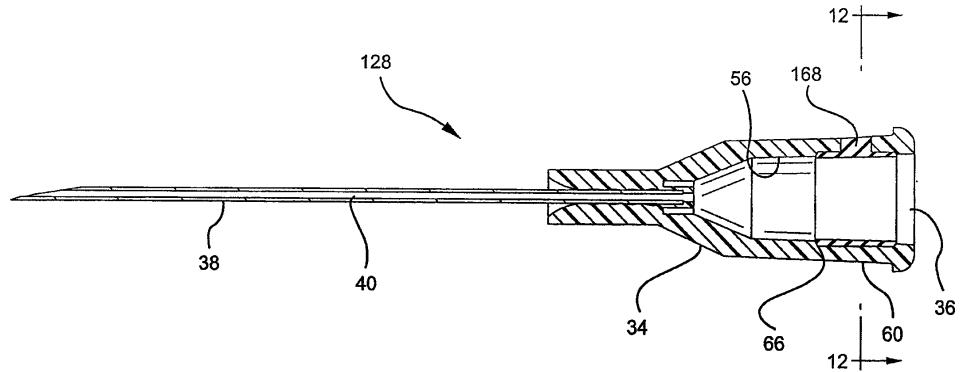
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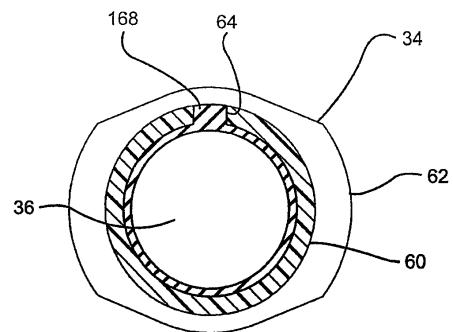
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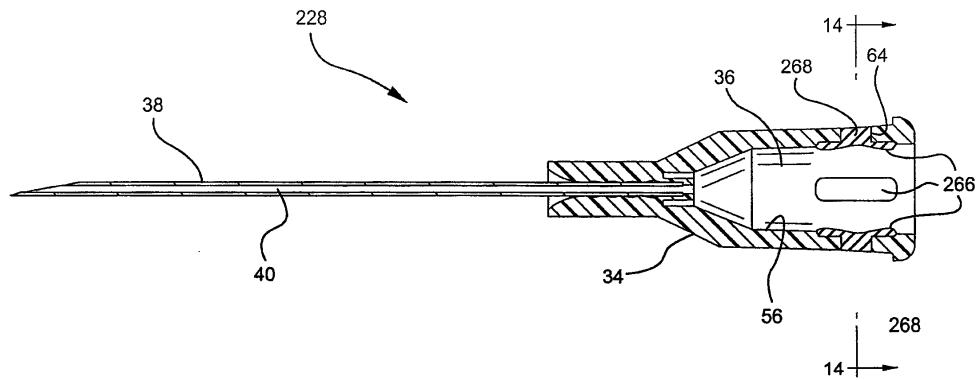
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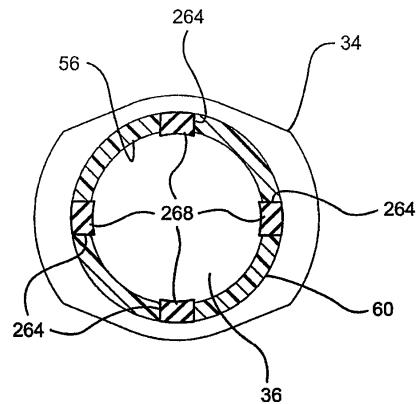
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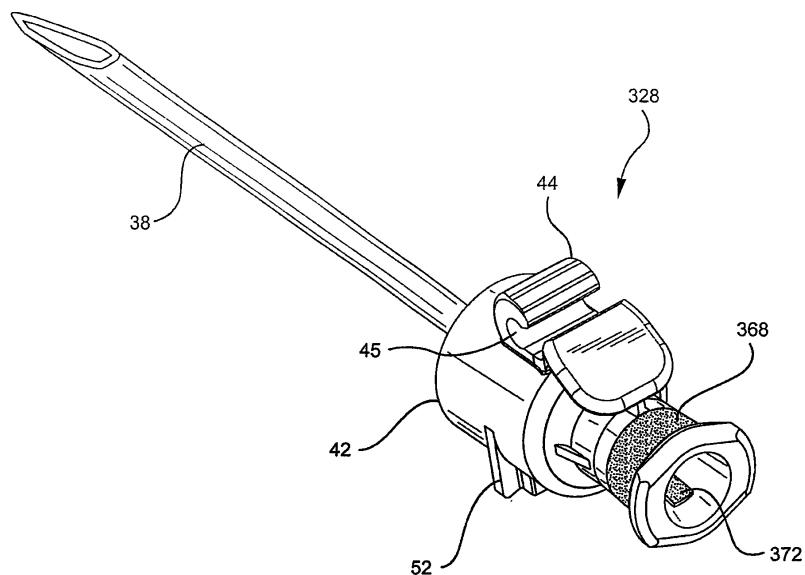
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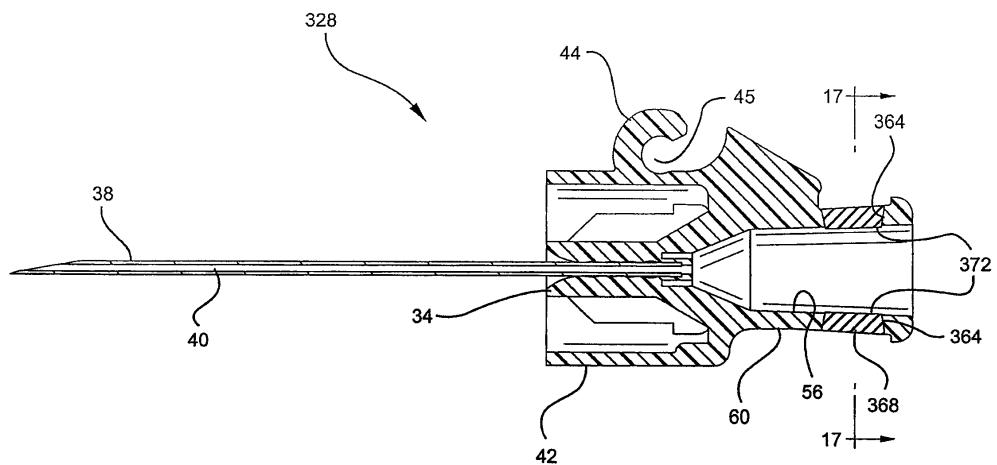
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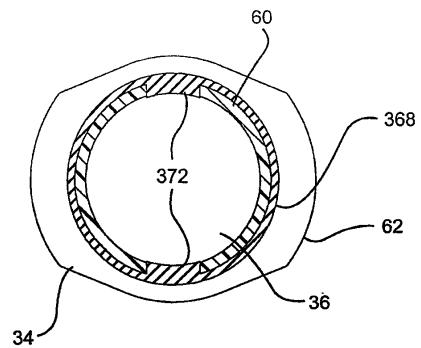
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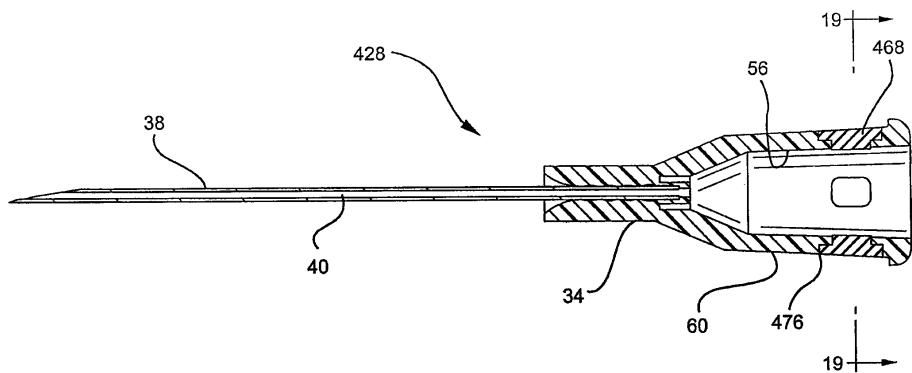
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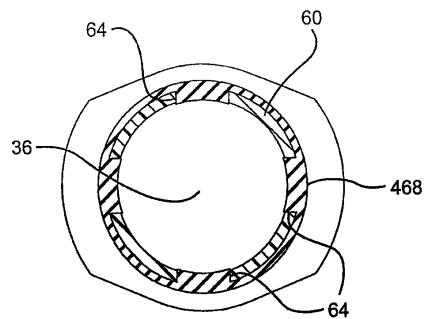
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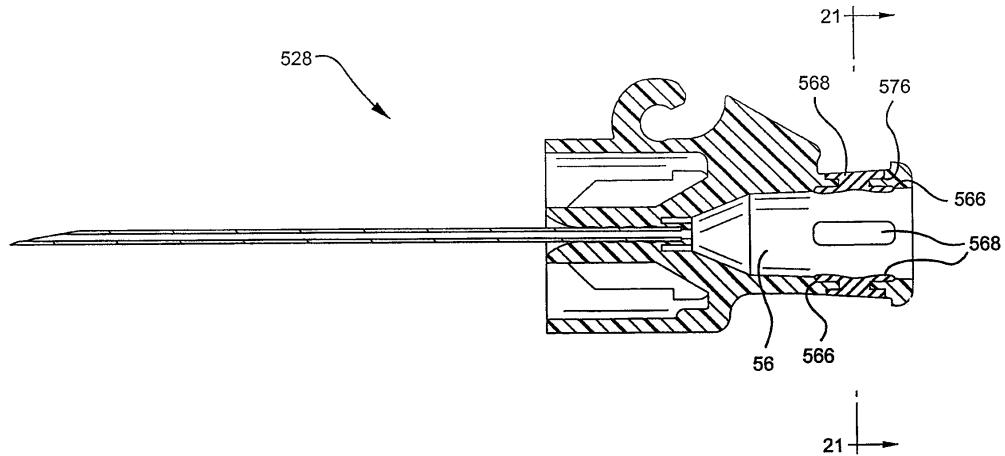
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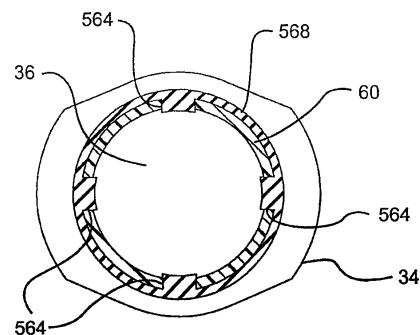
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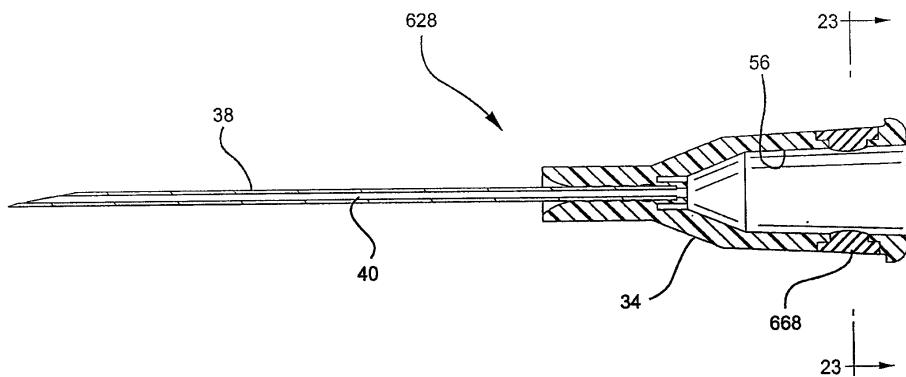
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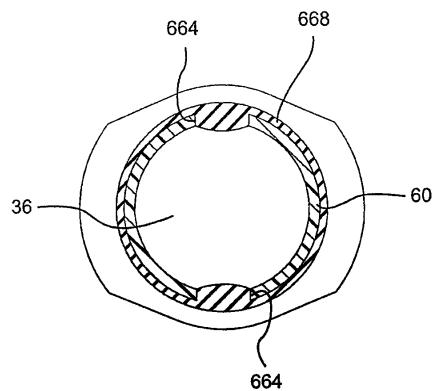
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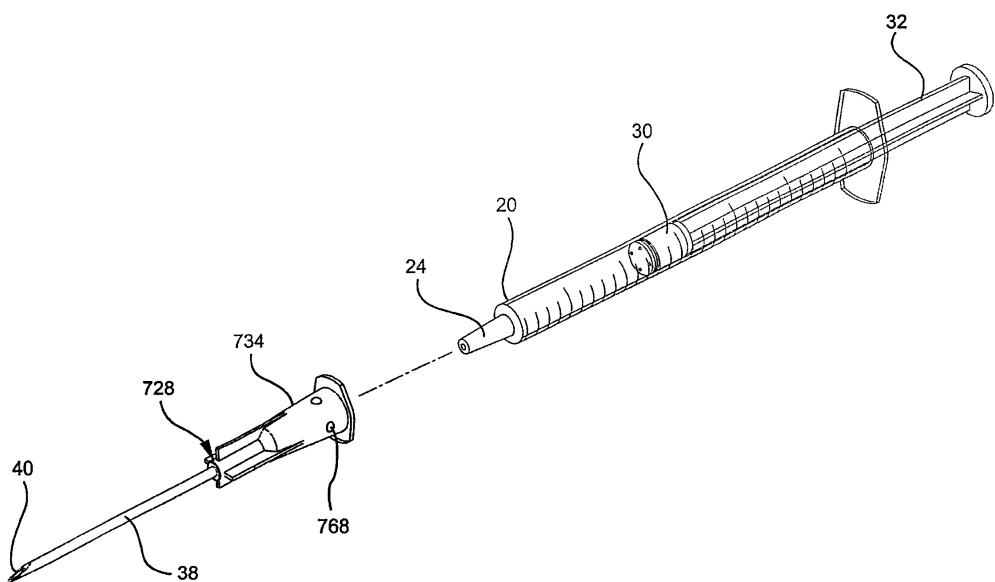
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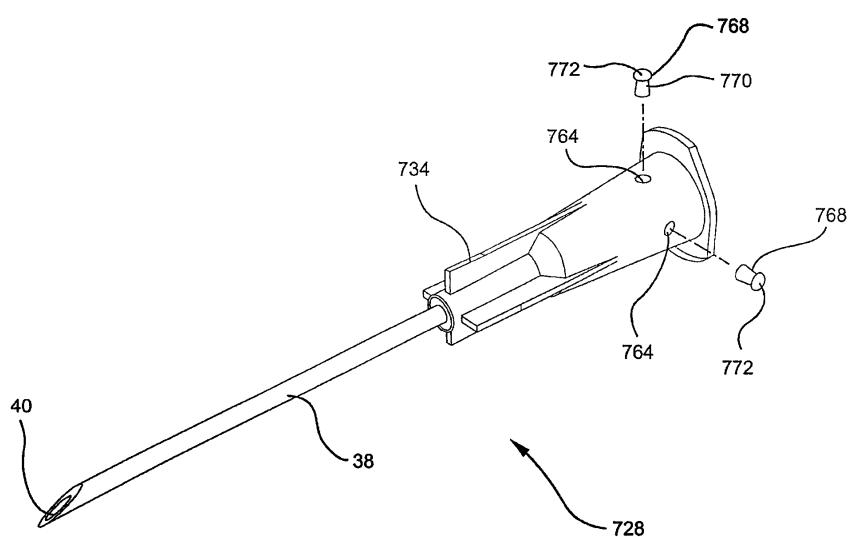
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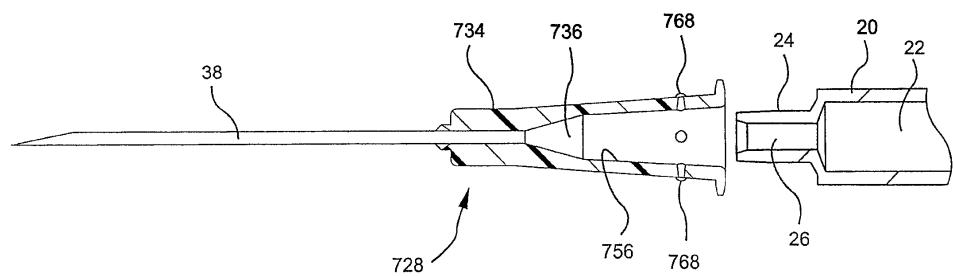
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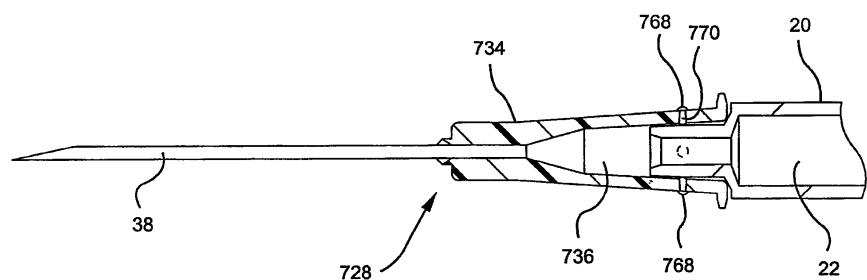
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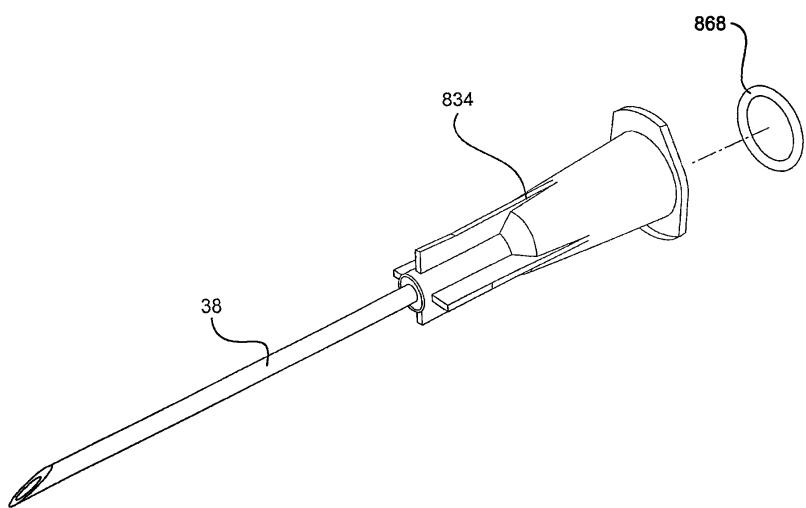
26



27



28



29

