

(19)
(12)

(KR)
(A)

(51) 。 Int. Cl. ⁷
A61M 29/02

$$\begin{pmatrix} 11 \\ 43 \end{pmatrix}$$

2001 - 0089543
2001 10 06

(21)	10 - 2001 - 7006969
(22)	2001 06 04
	2001 06 04
(86)	PCT/US1999/29904
(86)	1999 12 16

(87)	WO 2000/35378
(87)	2000 06 22

(81)

:

가

가

가

가

가

가

AP ARIPO : , 가 ,

EA :

EP :

OA OAPI : , 가 ,

(30) 60/112,939 1998 12 18 (US)

(71)

47402 - 0489	925
,	
47906	1400
.	/
- 4632	6

(72)

.		
47401	3718	
.		
47906	124	
.		
47906	3051	
.		
- 4632	56	
.		
47906	1833	
.		
- 4000	11	

(74)

:

(54)

(10) , 가 (11) , 가
 (12) . (21,22) , 가
 . (12) , (16)
 , 가 (11) , (14) (15)
 . , (16) (20)
 (18) , (16) (23)
 () ,

4

, 가 , , , ,

, .

(self - expa

ending) . , 1 2 , 1

가 .
가 .

1998 9 24

09/160,122

, (strut)
가 .

, (serpentine) .

5,421,955 , 5,102,417 , 5,195,984
가 5,104,404 .

,
 , 가
 , 가, 가 가 ,
 , 가, 가 가

가

, , .

(hoop) 가 , 가

, 가 ,
 , 가
가 .

1 , 가
가 , 가 ,
 , .

2 , 가 , 가

1
2 1
3 1
4
5 4
6 가 5
7 4 5
8 9 1 4

1 (10) 가
(11) (12) , 303 304
(13) ,
, 가 (11) (14) (14)
(15)
(15)
(12) 가 ,

(18) (16) (16) (17) (19)

(20)

(16) (19)

(21) (20) (18) (11) (1

5) (16) 가 (19)

(12) 가 (11) (15)

2 1 (10) (11,12) (16) 0.142mm

(w) 가 , (18) 0.026mm (g₁) (16) (20)

0.194mm (g₂) 1.93mm , 0.178mm (0.007in) 가 ,

(21,22) 가 3

2 , (21) 1.512mm(C) (21)

가 (11) (12) (22)

가 (11) 가 (11) (A₁) (20) (21,22) (18) (A₁) 0.84m

m 가 (B₁) 0.672mm (A₁,B₁) 1.512mm

4 1 (10) (12) (14)

가 (11) (12)

, 가 (12)

(12) (16) 5 (23) (16) (23) 1

1 (12) 0.047mm(g₃) (23) 4

5 , (23) (21,22)

0.756mm (11) (12) 가 (11) (A₂) 0.047mm

(21,22) 가 (23) (A₂,B₂) (A₂,B

(23) (B₂) 0.756mm 1.512mm

2) 6 (12) 가 (11)가 (21,22)

4 5 3 6 (branch)

가 (21,22) 6 (21,22)

3 3 (21,22) 6 (21,22)

3 (21,22)

(12) , 1 가
(21,22)

(10) (13) (24) 4 (24) 0.23mm
(gold sphere)

8 9 , 1 4 7.00mm 1
(12) A, B , C

[1]

	" A "	" B "	" C "
8	0.0119	0.0100	0.00816
9	0.00665	0.00772	0.00772

, 1 8 0.012mm/mm , 4 9 0.0
078mm/mm , 1 33% , 4 9 가

(57)

1.

(15) (14) 가 가 (15)
가

(11) ,

가 (17,19) (16)
(12) ,

가 (11) (21,22)가 (12)
가 (11) (15)

(12) (19) (21,22)
(12)

2.

1 , (12) (16) (18)
, (20)

3.

1 , (12) (16)
(23)

4.

1 , (13)가 .

5.

1 , .

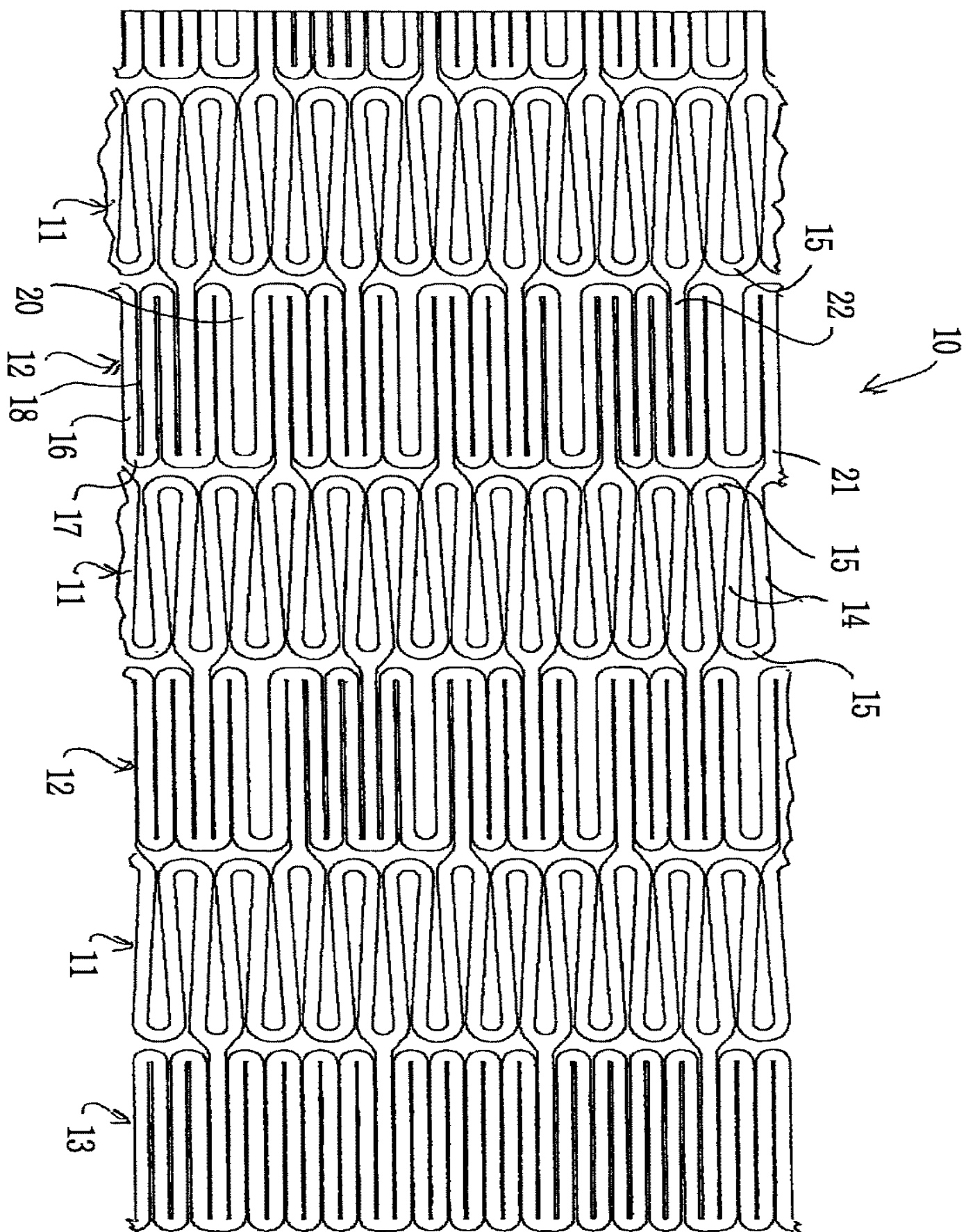
6.

1 , .

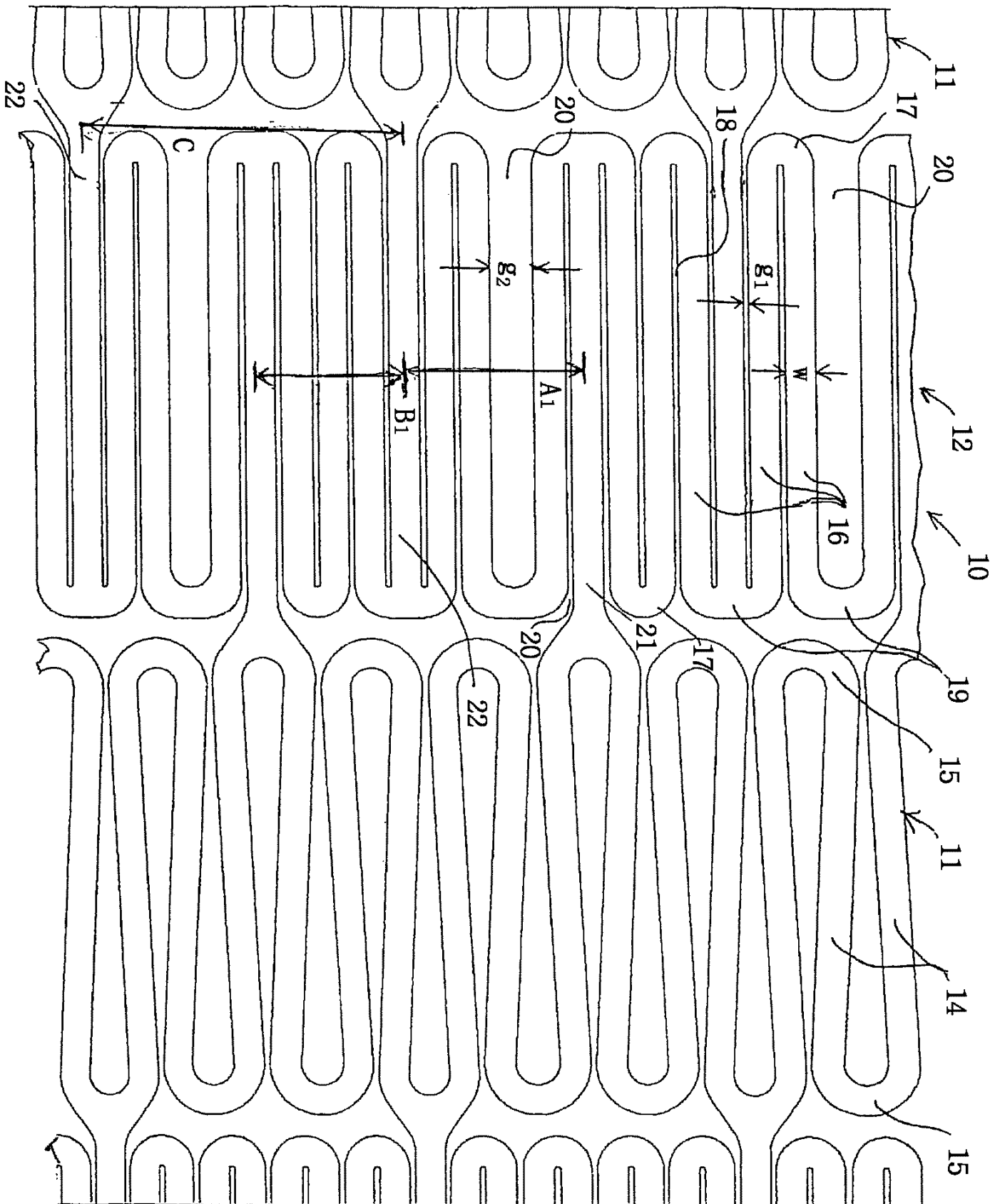
7.

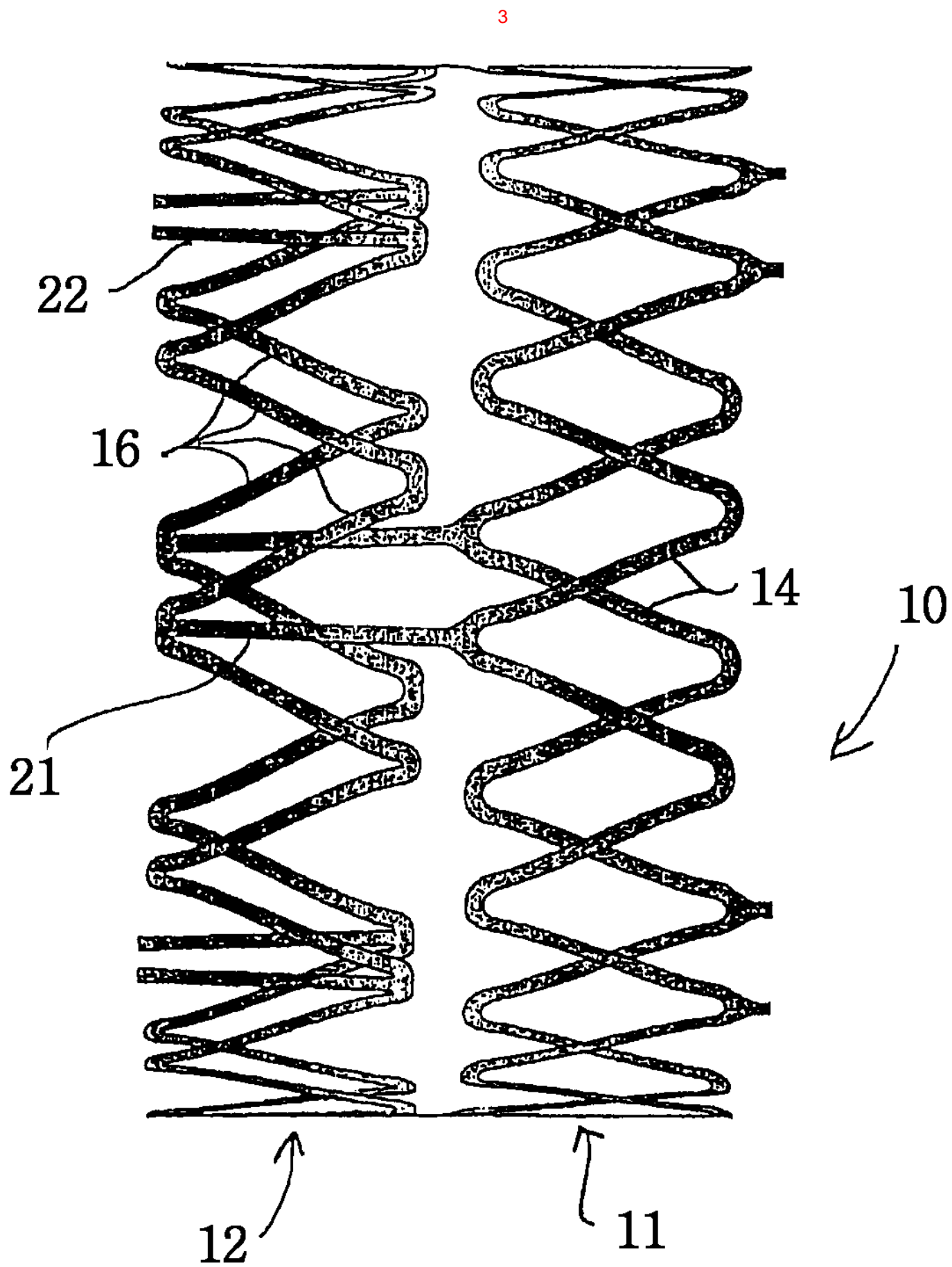
1 , .

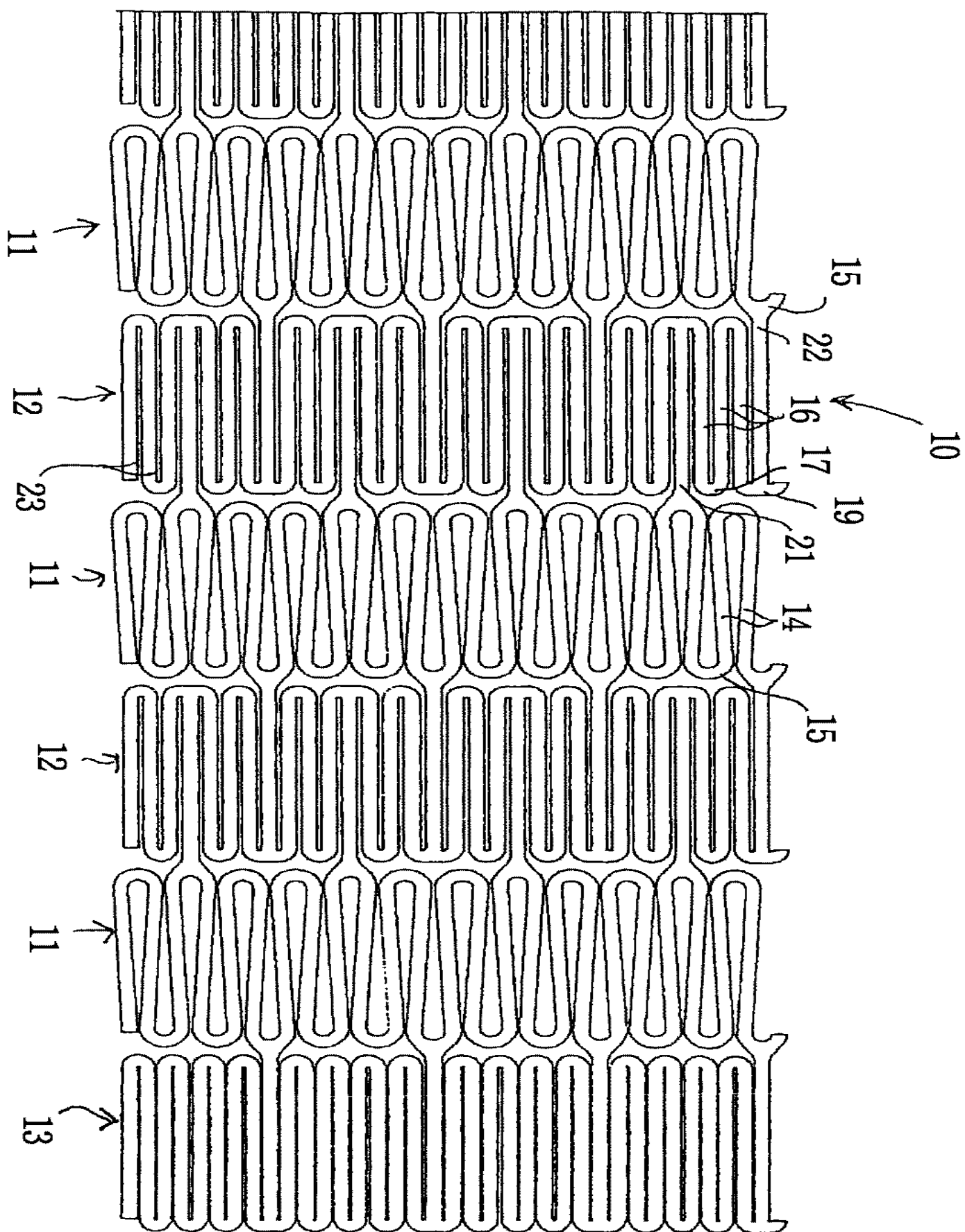
1

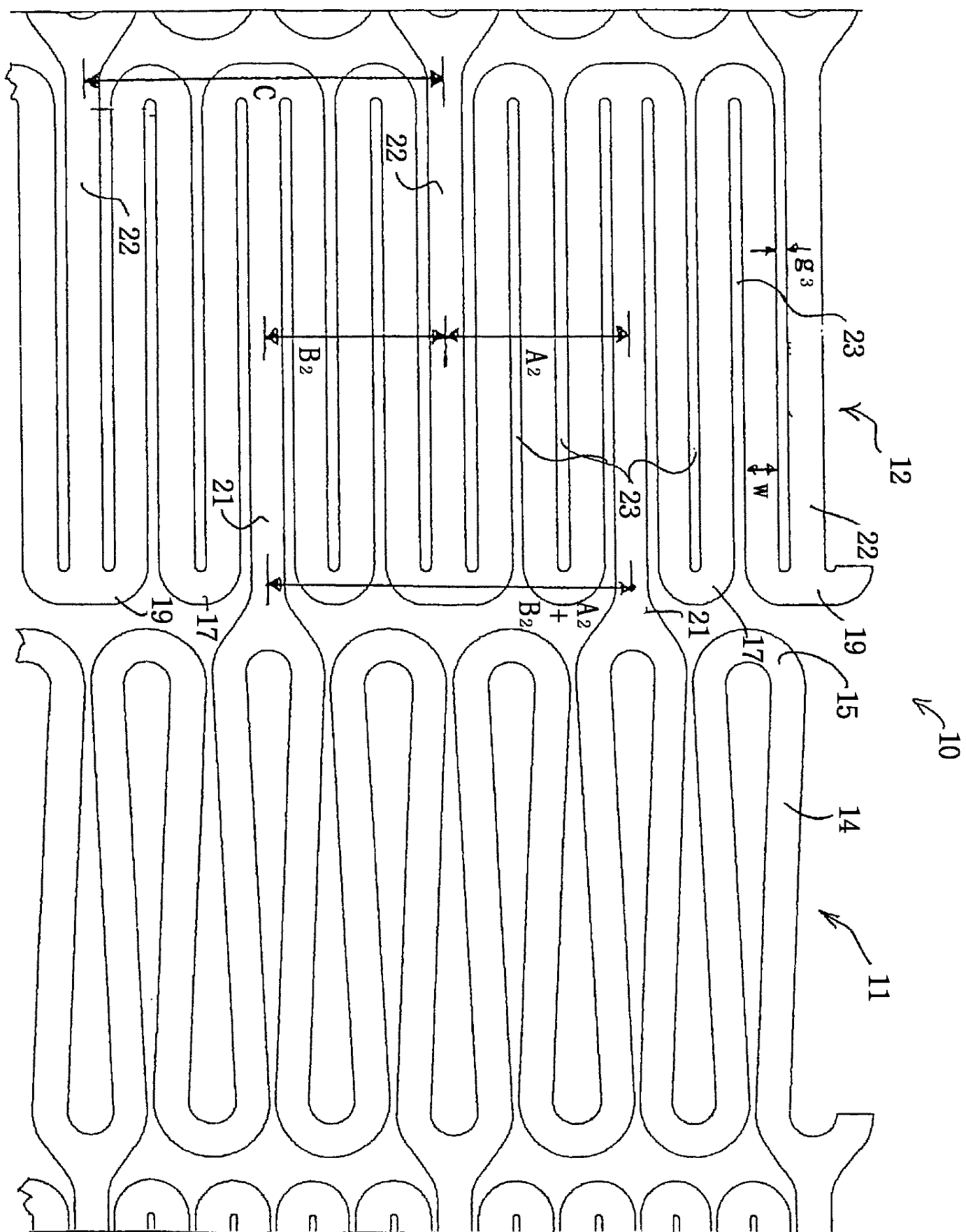


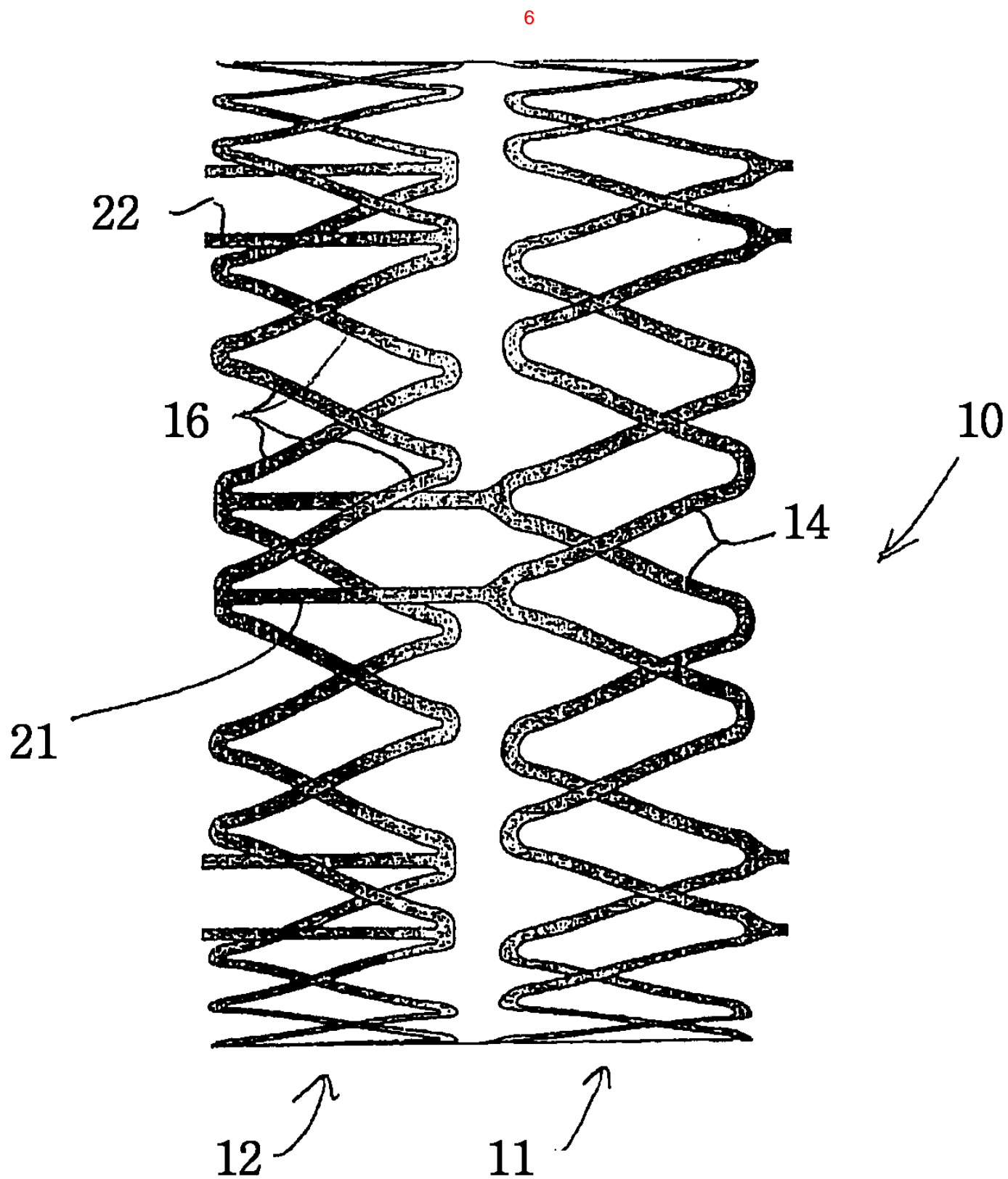
2



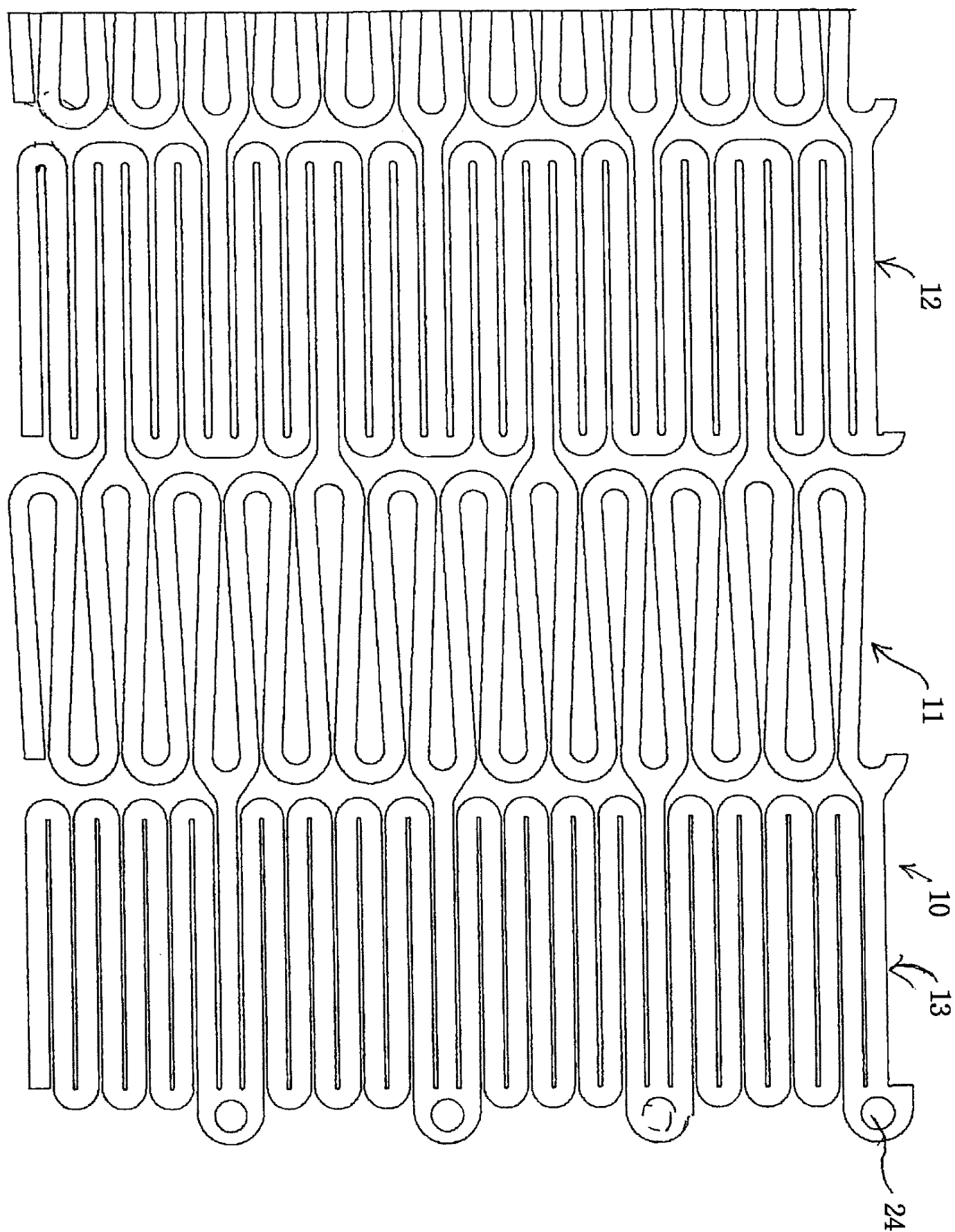




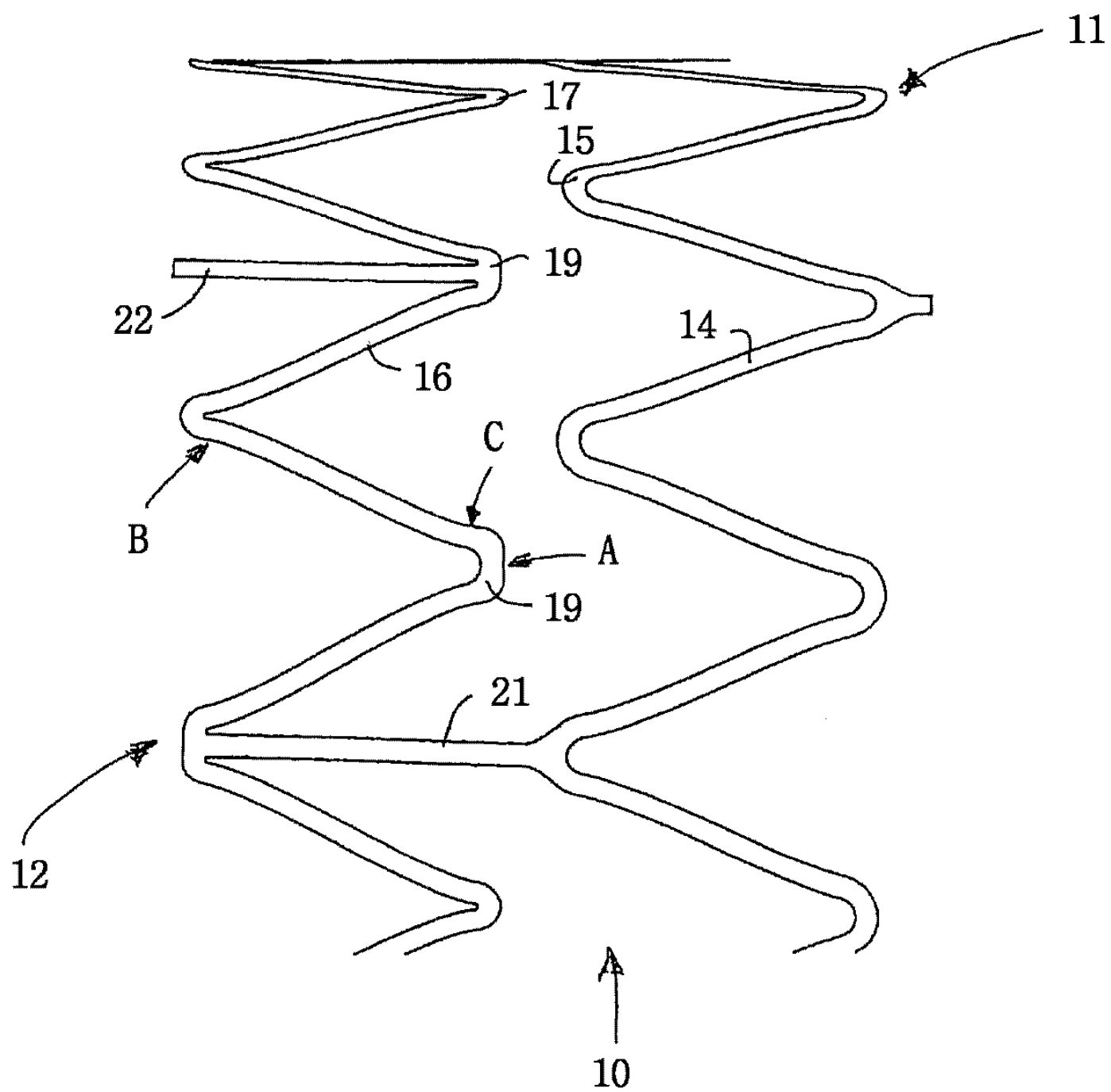




7



8



9

