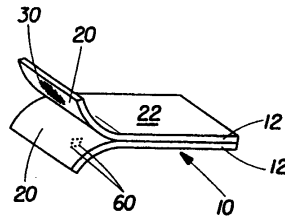


(54)

가

(10) 2 (12) (12) , (30)
 가 , (60) X - Y 가 , (10)



(embossing)

5,143,776 1992 9 1 (Givens)

3,414,459 (knob - to - knob) 가
 1968 12 3 (Wells) -
 976 3 9 (Appleman) 239,137 1
 가 1995 8 22 (Ruppel) 5,443,889

(nested) 1970 12 15 (G
 resham) 3,547,723 ; 1971 1 19 (Nystrand)
 3,556,907 ; 1973 1 2 (Donelly) 3,708,366 ; 1973 6
 12 (Thomas) 3,738,905 ; 1975 2 18

83,728 3,867,225 ; 1984 11 20 (Bauernfeind) 4,4
가

5,294,475 1994 3 15

3가

, 1992 11 18 (Chandler) 2 225 745A ; 1997 4 15
(Schulz) 5,620,776 ; 1990 12 18 (Pigneul)
4,978,565

1993 5 11 (Grupe) 5,209,953

1990 4 10 가 1985 6 11 (Keck) 4,522,863
(Ten Wolde) 4,915,993
(scrim) (grid - like)

가

가 2

1987 1 20 (Trokhan) 4,637,859

(Yankee)

(12)
 (30) 가 3 7 %, (30) 5 % (30)

가 (12) 가 (10) (12)
 (Hercules Chemical Company) (KYMENE)
 1 5 %, 2 4 %, 2.5 %

(30) 3 4 (10) (12) (30)
 4,637,859

2 (30) (30)가 (30)

(44), (44) 2 (40)가 (40) 3
 (44) (48) (20) (30) (42)
 (30) (44) (48) (30)가 (46) (48)
 (12) (48) (50) (30) (50) (48)
 (12) 1 (20) (30) (40) (12) (48)

1 (40) (30) (12) (12) (30) 2

(12) 1 (12) (48)
 2 (12) (12) (48)

(30)가 1 (12), 2 (12) (12) 2 (52)
 (52) (52) 5,294,475
 (52) (52) 3,414,459
 (52) 3,556,907

(48) (52) ()
 (48) (52) .2 (52) 2 (12)

가

(in - line sun and planetary gear system)

(Cone Drive Operations, Inc.)

2 (12)

3 (60) (60) (60) (60) (60) (60) (60)가

(10) 1 가 3 (60) 45° 1

(30) (30) (60) 1

(60) (30)가 (30) 가 (10) (10) (30)가 (10)가 (30)

(30) 1 1 1 (30) 2 2 (60) 1 (60)

4a (30) (60) (30) 가 가 (60) (12) 2 (12) (12) (30)

4b (60) 가 4b (30) (60) (30) (30) (60) (30)

4c (30) 4a 4b (60) 4c
 (30) , (30)
 (30) 가 (30)
 , 가 (60) (60)
 (60) (60)
 (10) (10)
 (10) , , 1987
 8 18 4,687,153 1997 8 26 (Byrne)
 5,660,350 (10)
 1997 7 8 (Young) 5,664,897

(57)

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.

8.

9.

10.

가

, , 가 , 가 .

11.

10

가

12.

11

가

(離散)

13.

12

14.

13

(diagonal)

1

15.

14

가

1

16.

15

,

1

가

17.

11

,

가

18.

10

,

1

2

,

1

2

1

2

-

-

(knob - to - knob)

가

,

1

가 2

19.

가

,

가

20.

19

,

가

21.

20

,

가

22.

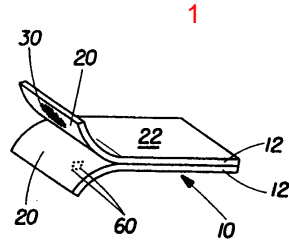
21

,

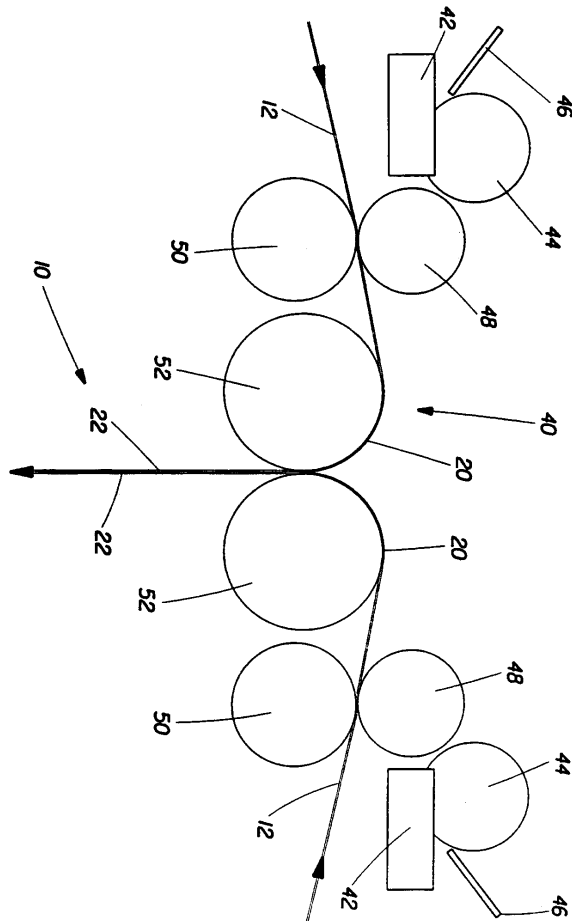
23.

22

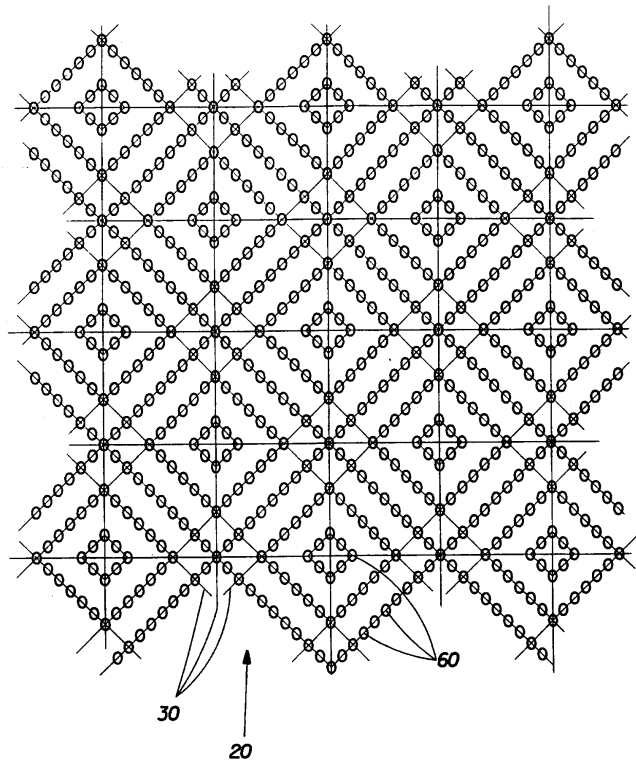
1



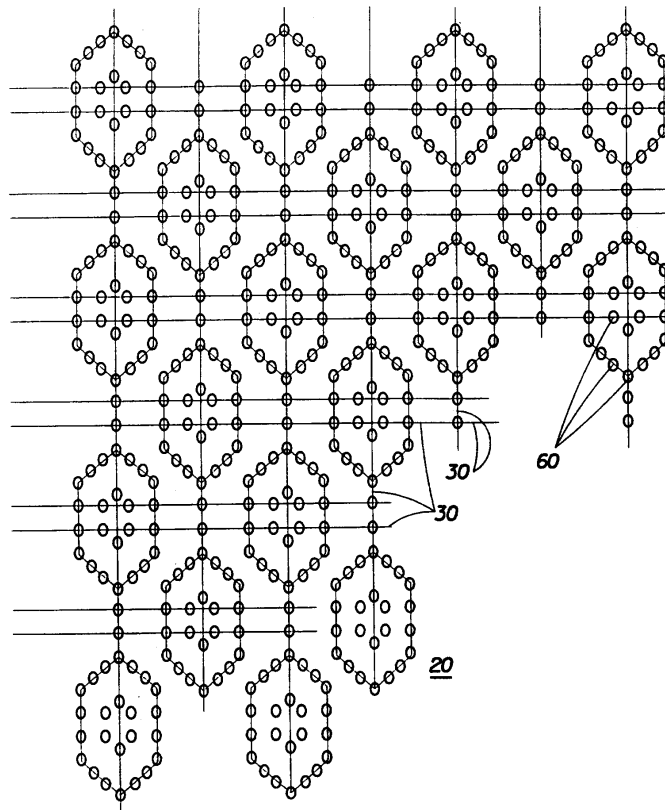
2



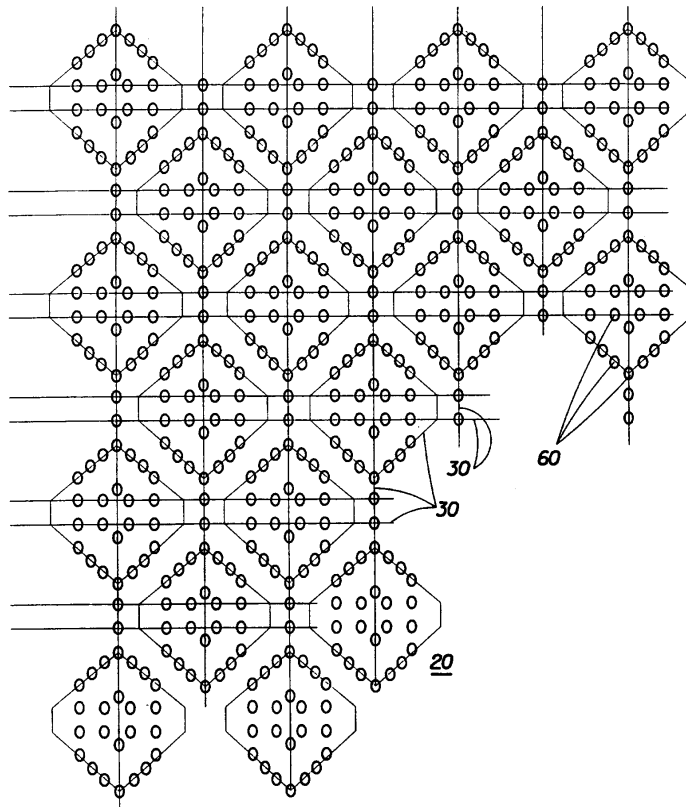
3



4a



4b



4c

