

(19)
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2002 02 01

(21) 10 - 2000 - 0042566
(22) 2000 07 20

(71)
663 - 27
90 - 1 102 503
108 1801

(72) .
Russia.103907.Moscow.GSP - 3MaryAvenue18

(74)

:

(54)

(irradiator) , (Rotation surface) 가
 (beam) , (direction)
 (tore) 가
 $f(z) = P_{mn}(x, y)$.
 $P_{mn}(x, y)$ x n , y m 가
 가 $f(z) = x$.
 가 ,
 ,
 가 가 .

1

1 가 .

2 가 .

3 2 ZX .

4 2 XY .

5 .

6 .

7 2 .

8 3 .

9 4 .

* *

10 : 30 :

20, 202, 204, 206, 208, 210, 212 :

32 : 60 :

TV
(multibeam) (scanning antenna)

(One plane) 가 (shaping) (scanning) (toroidal)

(multibeam antenna)가

가 , 가
가 가
가 2 (confocal toroidal)

가 , 가 가
(rotation parabolic) (bifocal antenna)가

(directivity diagram) (focus) 가 가

가 (angle of aspect)가
aperture) (amplitude of field) (angular diversity)가 (

2 가 1 , 1
2 (phase synchronism of front)

가

)

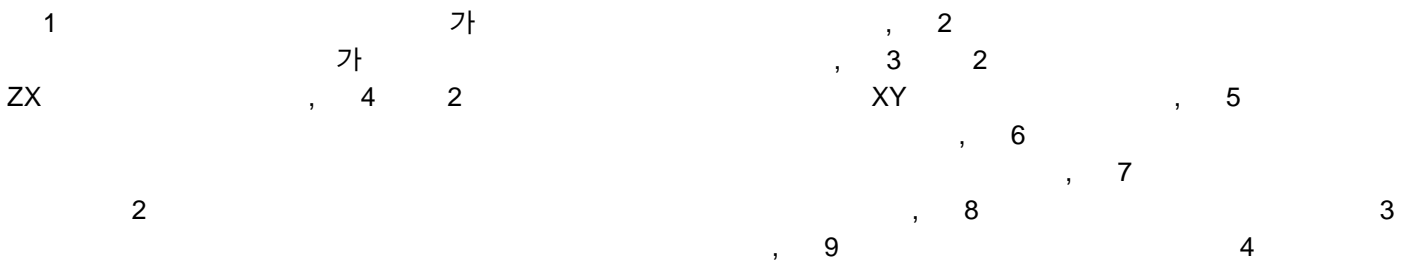
(

가 2

(母點) $\chi = F(z)$

가

가 (sine abbe)



1

가

(10)

(20)

(30)

(10) (20)
 (aspect of space) (scanning antenna) (30)
 (30) (32) , (32)
 (horn - type)

(30) 가

(20) (z) = (x, y) ,
 (x, y) x n, y m (coefficient) (32) 2
 가 (32)

(20)

3 4 (10) 가 (ZX) (YX)

(10) (parabolic tore) , (34) 3
 (dash line)

(10) (102) X -
 1630mm (10) 2550mm (10) 3530mm
 3000mm

XZ (20) (10) (10)
 (102)

(20) (32) 10°
 (-)

(20) 3 - (10) 가 Z
 가

(32) (40)(4)
 가 (32) (40)

(32) XY (20)

(10) (20) ZX (20) (10)
 0,33

() 10db 55° (tore)() 6652mm
 3632mm 794mm

(10) $2557x + z = 17009$

0) (20) (20) 가 (1

5

가 가

6

가 가 (60)

202, 204)

8

7

(206, 208, 210)

(

가

9

가 (212)

가

(Rotation surface)

가 (direct

(irradiator) ion) (beam)

(tore)

가

$f(z) = Pmn(x, y)$

$Pmn(x, y)$ x n , y m
가 $f(z) = x$

가

(57)

1.

가

가

$f(z) = Pmn(x, y)$

$Pmn(x, y)$ x n , y m
가

가

$f(z) = x$

2.

1

가

3.

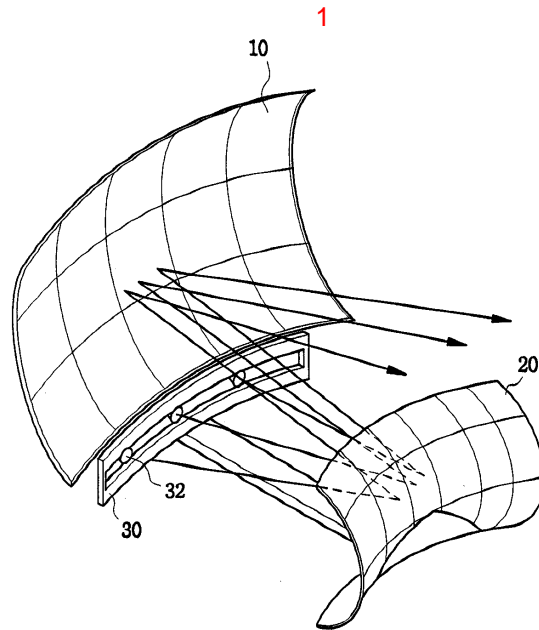
1 ,

4.

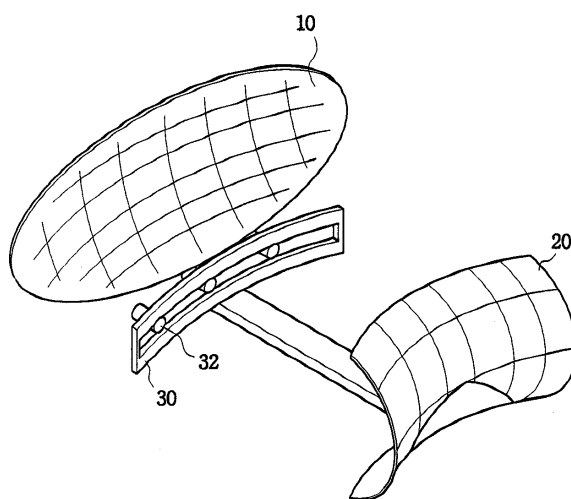
1 ,

가

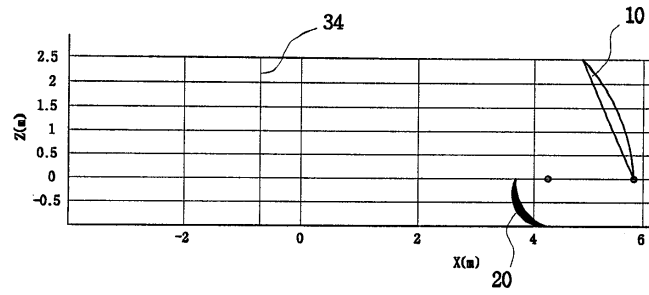
가



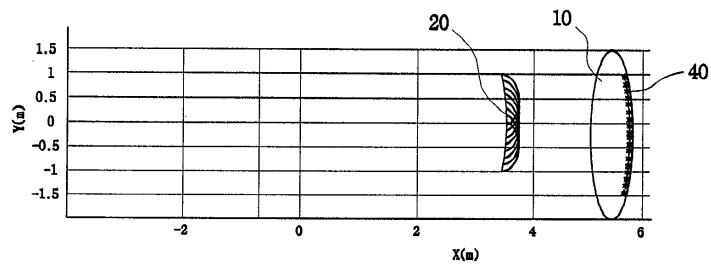
2



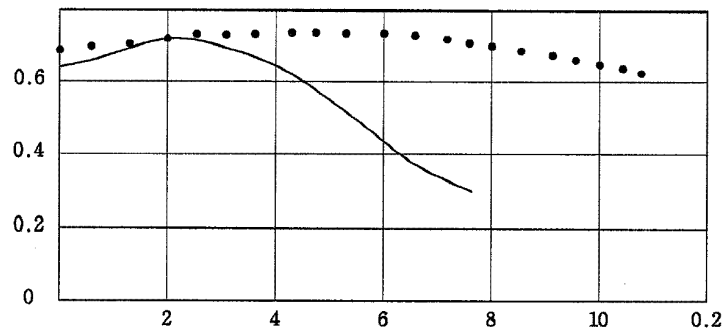
3



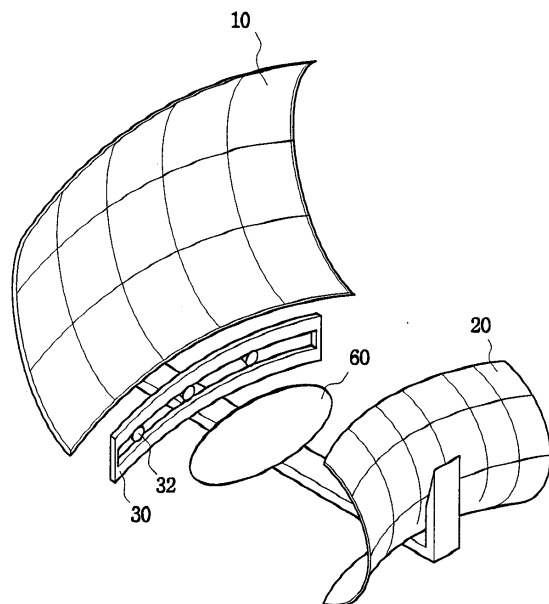
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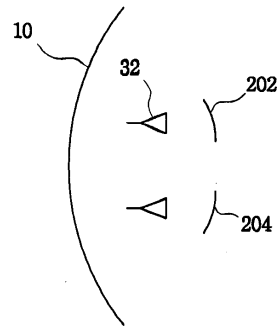
5



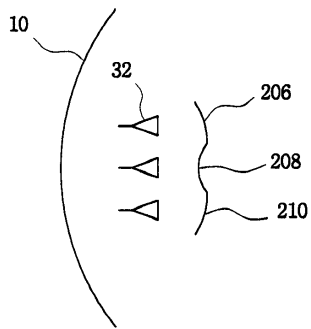
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7



8



9

