

**(19)**  
**(12)**

**(KR)**  
**(B1)**

(51) . Int. Cl.<sup>6</sup>  
G02B 19/00

(45) 2003 10 11  
(11) 10-0384551  
(24) 2003 05 07

(21)	10-1995-0016072	(65)	1996-0001786
(22)	1995 06 16	(43)	1996 01 25

(30)	P4421053.1	1994 06 17	(DE)
	P4441947.3	1994 11 25	(DE)

(73) - -

(72)	89551	15
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73453	9
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(74)

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(54)

2, 23)	, , ( )	가	(2)	가	(2)
	,	( )	가	.	.

1

1			
2a		가	
2b	2a		
3	2a	2b	
4a			.

4b  
4c  
4d  
5

5

2. 22,23.

W.N. Partlo et al., SPIE Vol. 1927, Optical/Laser Microlithography VI (1993), pp. 137

- 157 ( 19, 20 )

2 가

가  
0 564 264 A1

( 17 19 )

5 - 252308

0 346 844 A1  
가

51

5 208 629

가

가 가

1987

ASM - L

5 237 367

5 245 384

(afocal)

5 357 312

(  
2

1

1

가

가

0 297 161 A

가

4

가

가

가 가





d<sub>210</sub> 2 (2112, 2113) 3 (2121, 2120) d<sub>210</sub> 가  
 가 , (30)  
 , (130) 2a, 2b 가 (30)  
 , , , (230)  
 , , ,  
 C 가 , 7  
 B 6 , A 5  
 , B  
 , ,  
 1  
 파장 360.00 nm

<u>번호</u>	<u>반지름</u>	<u>두께</u>	<u>유리 종류</u>
13	평면	10.20	
211	-199.5	87.40	석영
212	-92.4	45.20	
213	평면	4.35	
214	평면	46.54	
215	393.8	29.00	FK5
216	-302.9	2.15	
217	평면	5.00	FK5
218	평면	2.15	
221	135.3	8.00	FK5
222	원추형	0.00	가변
231	원추형	42.00	FK5
232	739.1	26.53	
241	-183.0	9.40	FK5
242	170.3	26.38	가변
3	평면		

원추각 a : 222 와 231 에 대하여 63 도

2 번호	반지름	두께	유리 종류
130	평면	35.0	
2110	-48.0	24.3	석영
2111	-40.1	0.6	
2112	-94.4	14.6	FK5(Schott)
2113	-56.6	0.2-130.5( $d_{210}$ )	
2121	-56.6	37.4	FK5
2120	-101.5	130.4-0.2	
2150	578.8	21.8	FK5
2160	-254.8	2.1	
2170	평면	2.2	
2180	평면	2.1	
2210	154	8.0	FK5
2220	원추형	가변	
2310	원추형	46.0	FK5
2320	-2512	143.1-0.2	
2410	-2512	9.1	FK5
2420	128.6	23.1-166( $d_{240}$ )	
30	평면		

원추각 a . 2220 과 2310 에 대하여 62 도

(57)

1.

(22,23)

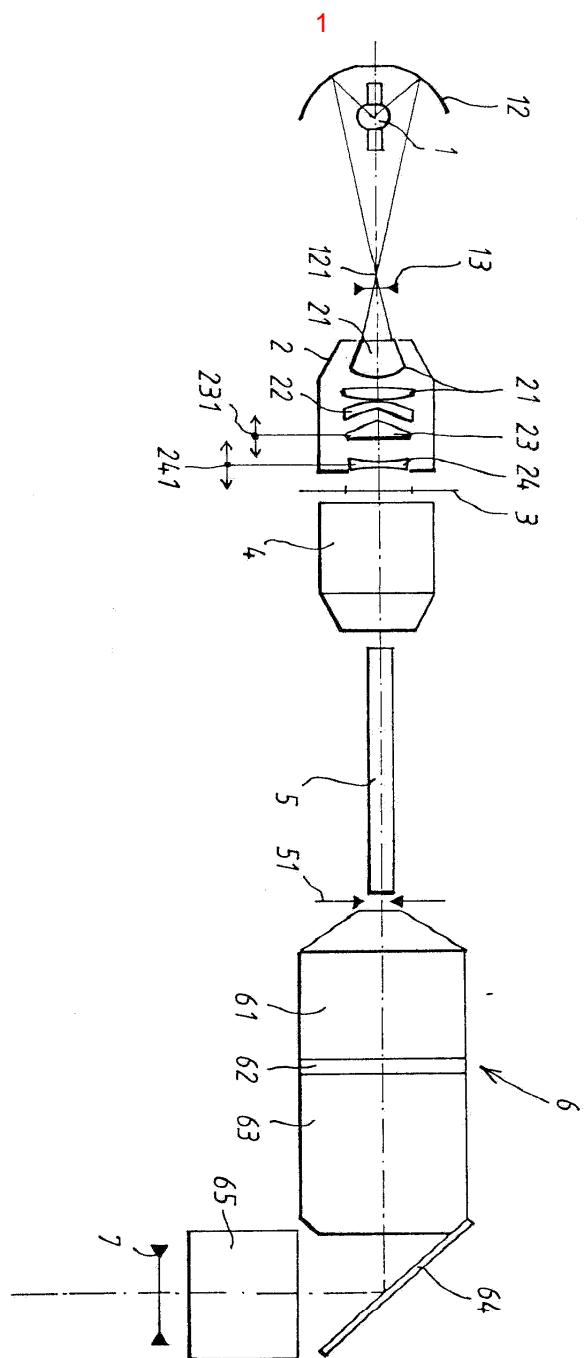
(2) ,

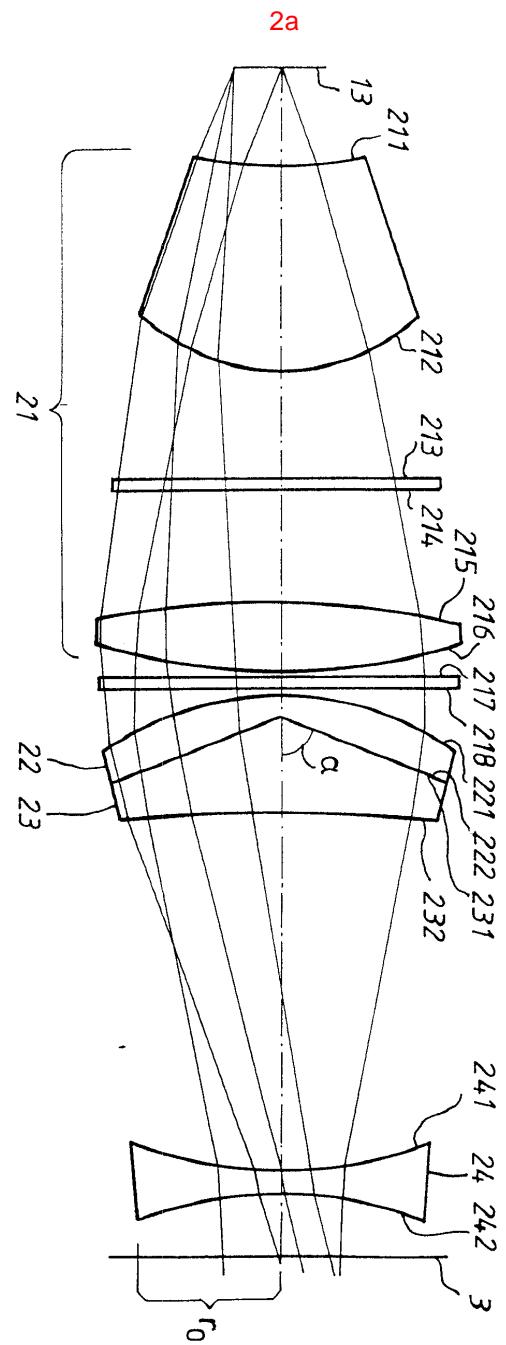
( )

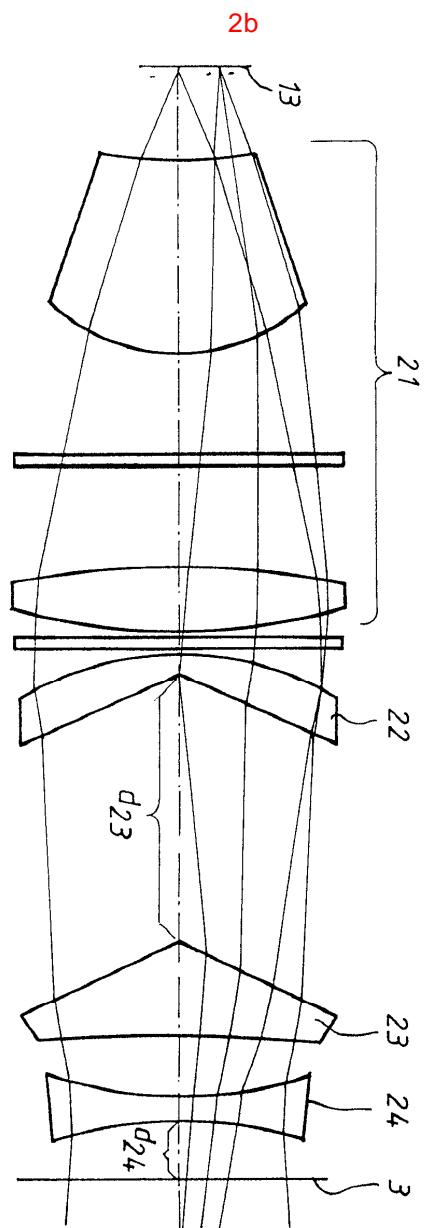
1

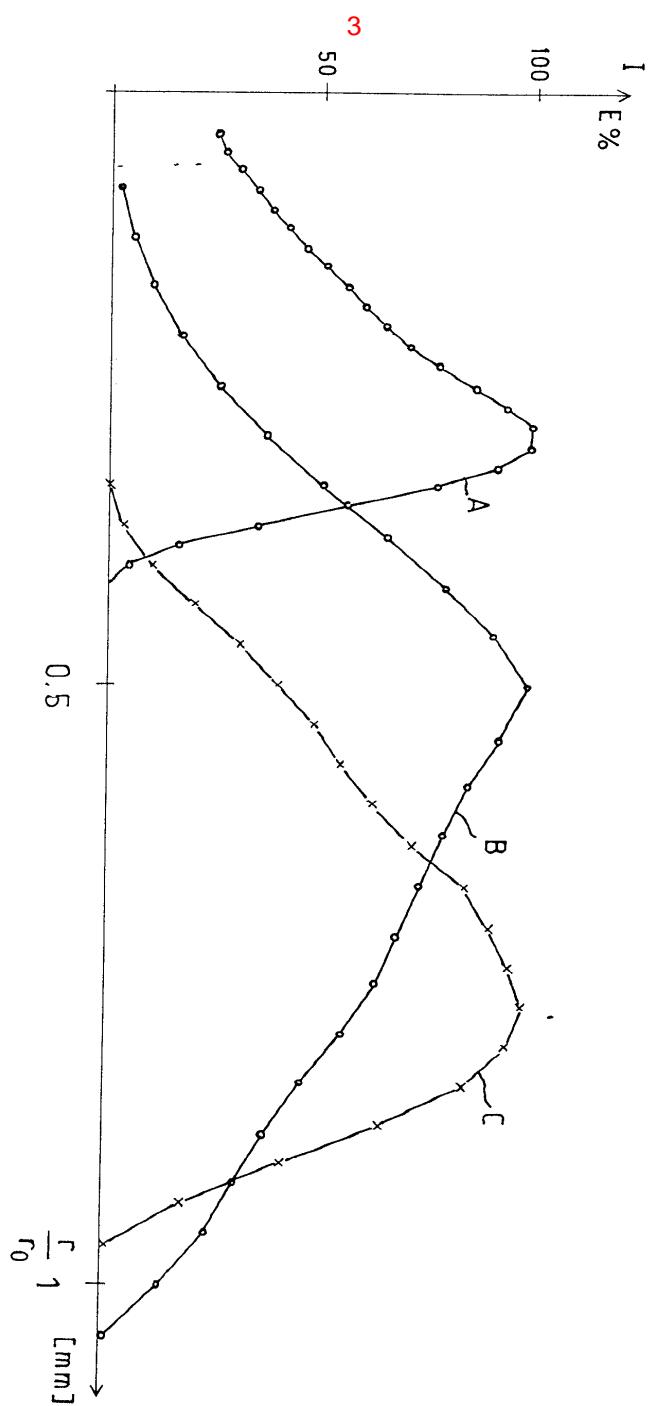
2

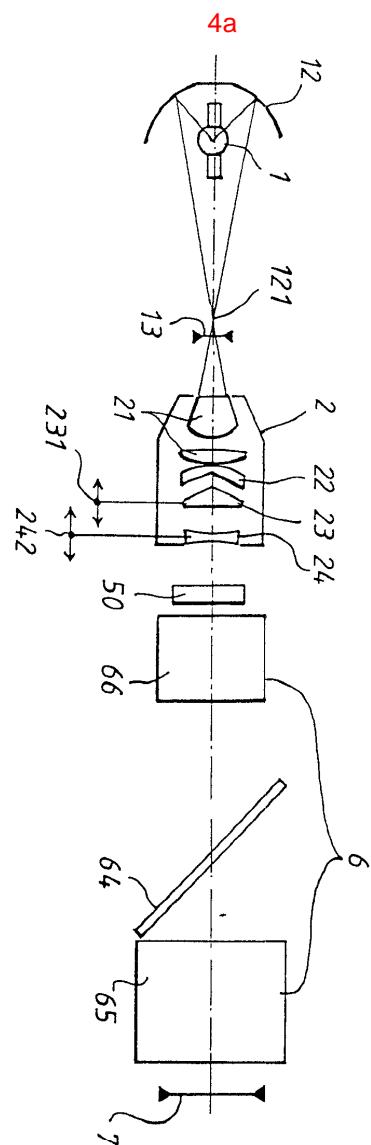
	(22, 23)	(2)		
2.	, 가	,	(22, 23)	( ) 가
3.	2 ,	(22, 23)	(d23)	
4.	2 ,	(22, 23)		
5.	2 ,	(22, 23)	가	
6.	,	(22, 23) 2	(221, 232)	
7.	6 ,	(22, 23)		
8.	, (22, 23)	(d23)	(24)	
9.	,		(5)	
10.	, (51)	(5)		
11.	, 6 9 ,	(13) 가	(12)	(121) 2
12.	, (5)			
13.	, 6 , 8 9 ,			
14.	, (2121, 2120; 240)	가		
15.	, 가 , 가 (2121), (2113) (2113)	(2121, 2120) (2113, 2121)	(2112, 2113)	(2113)
16.	, 가 (2121; 2120)	(2112, 2113)	n	가
17.	14 16 , (220, 230), ( ) 가 , , ( ) 가			(2121, 2120; 240) (2113)
18.	,			

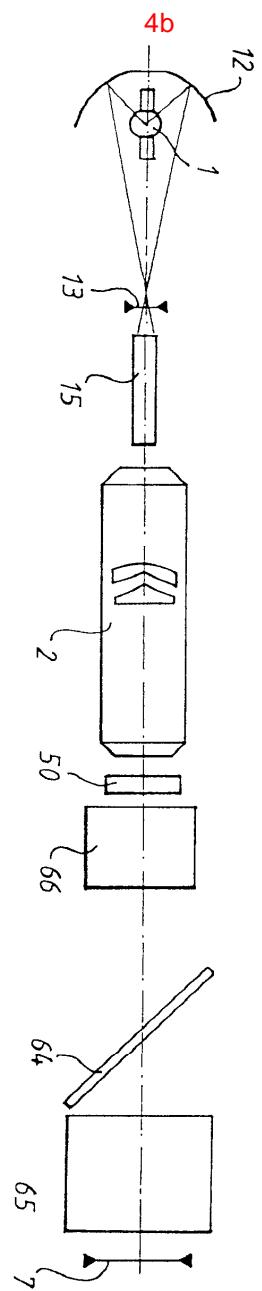


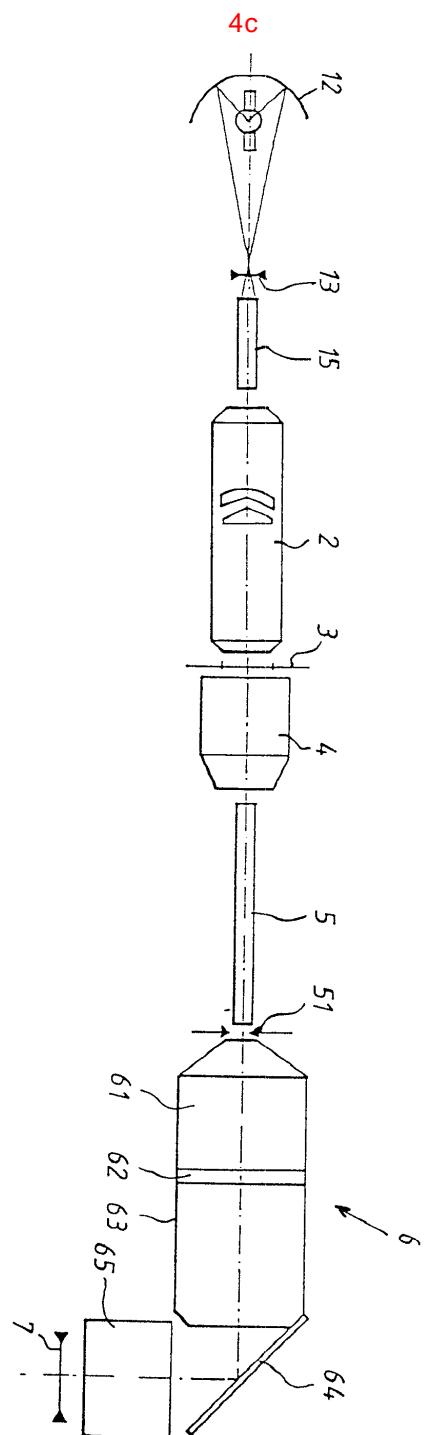




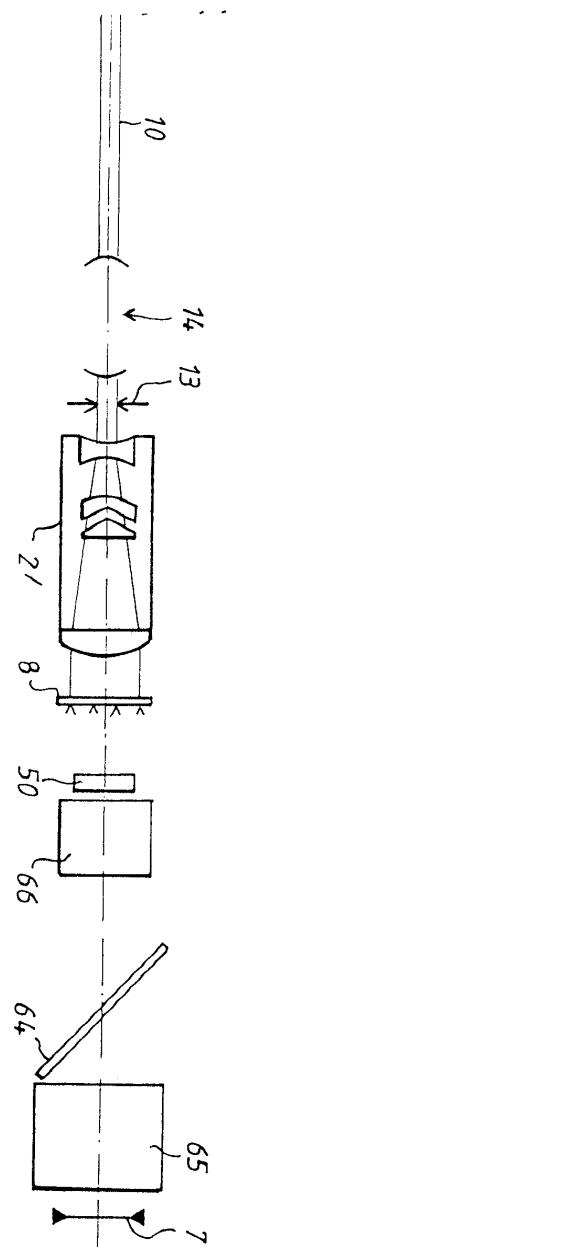








4d



5

