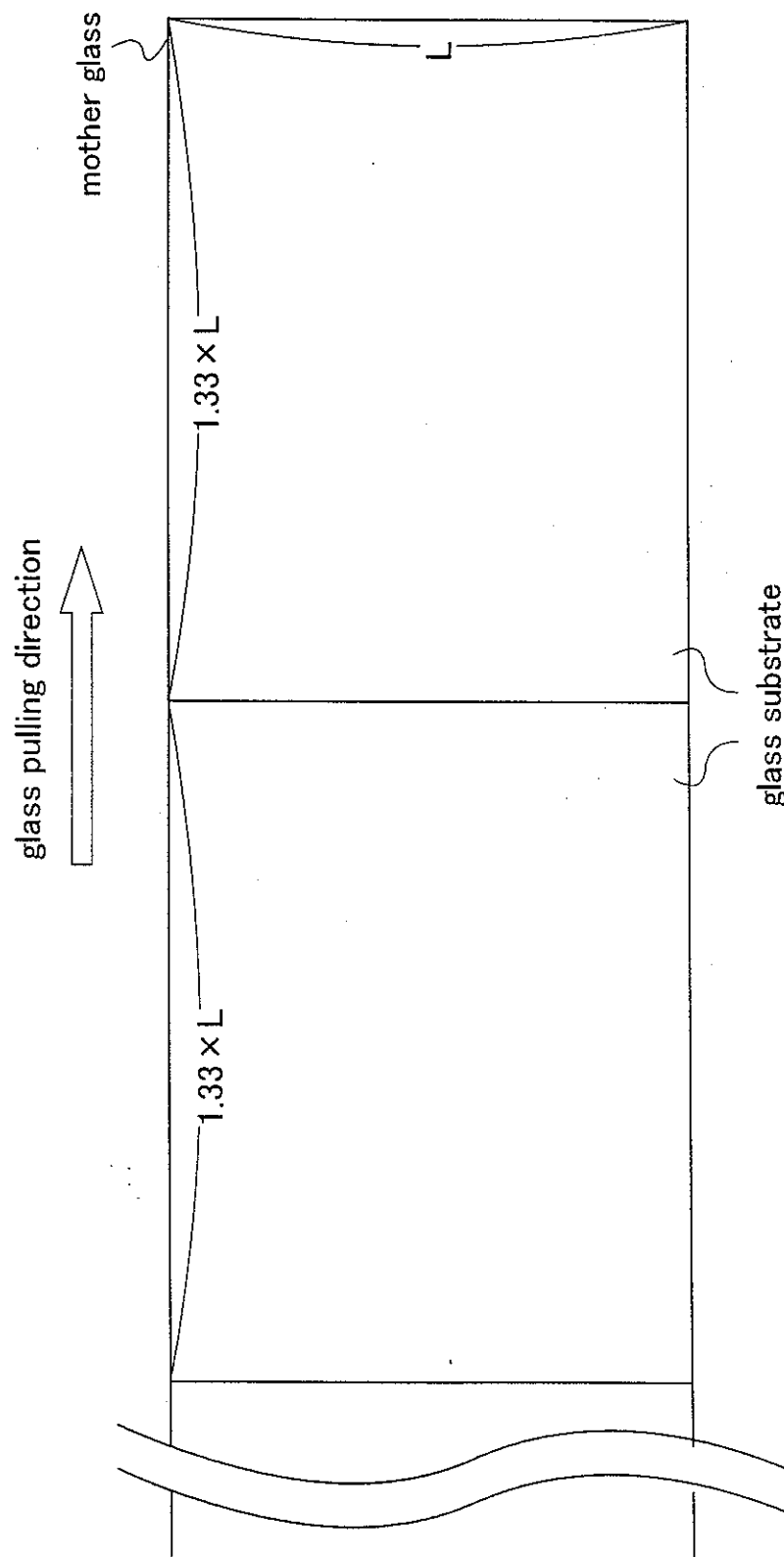


Fig. 1



Prior Art

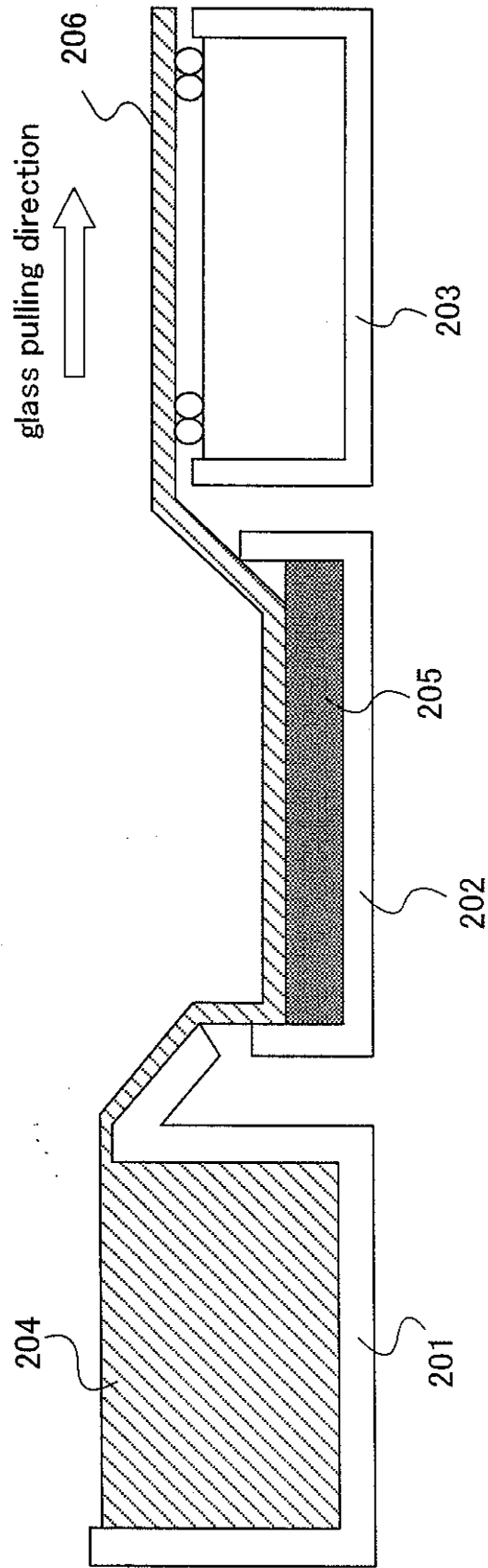


Fig. 3

Prior Art

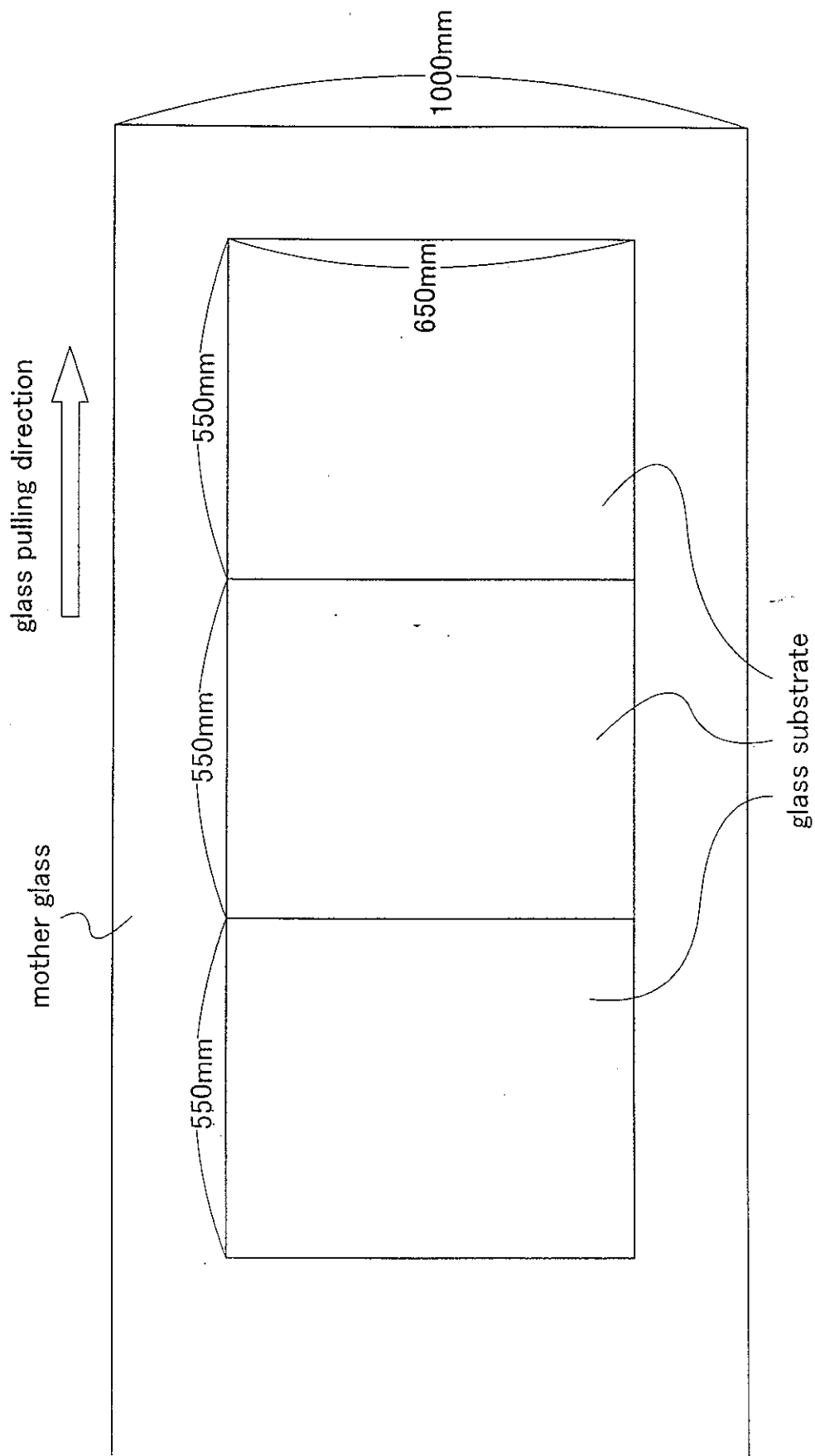


Fig. 4

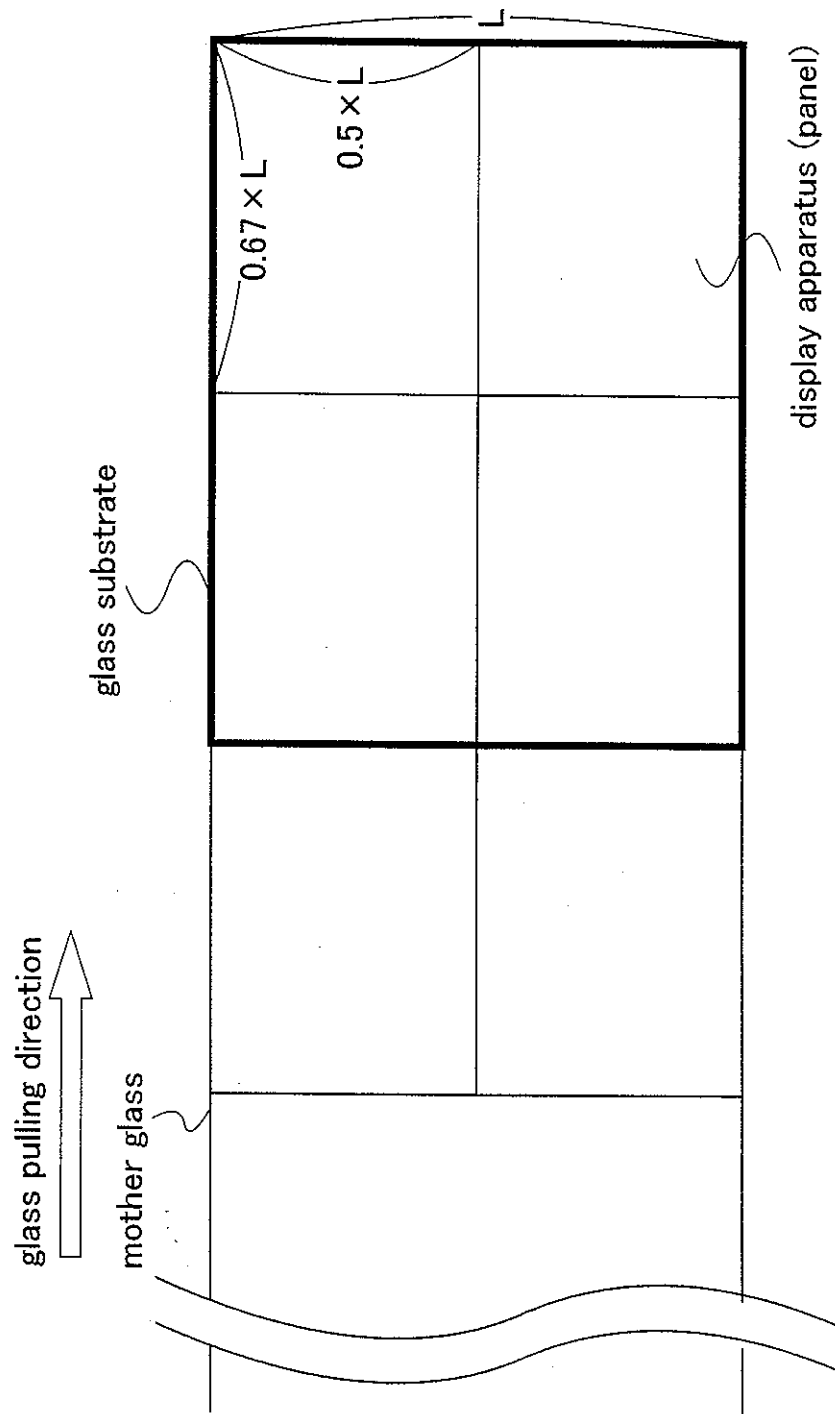


Fig. 5A

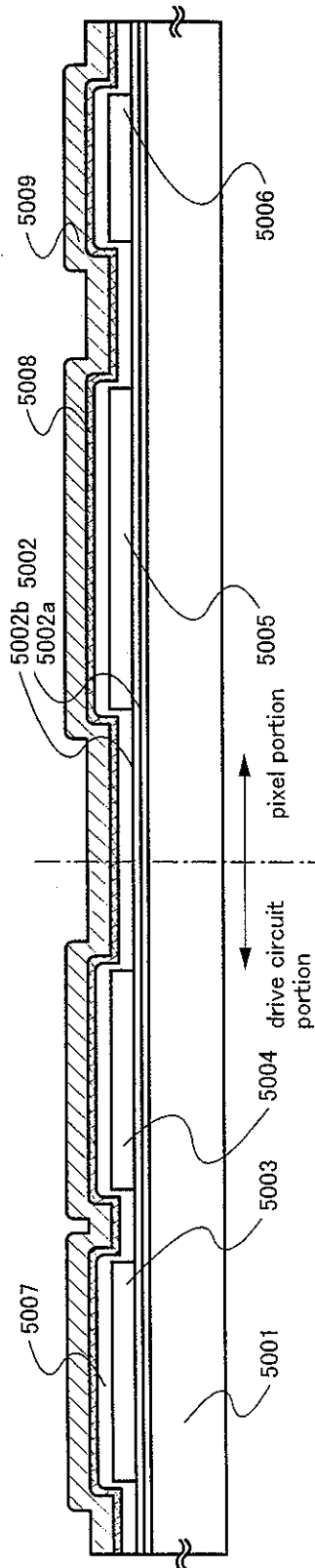


Fig. 5B

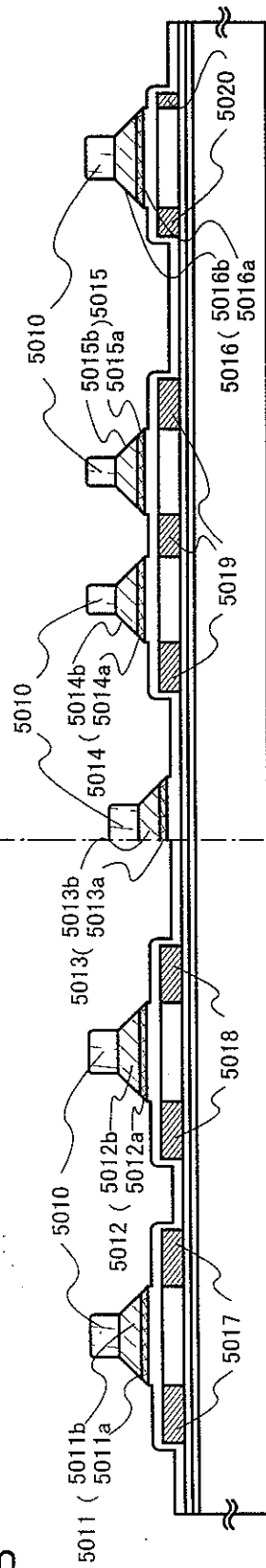


Fig. 5C

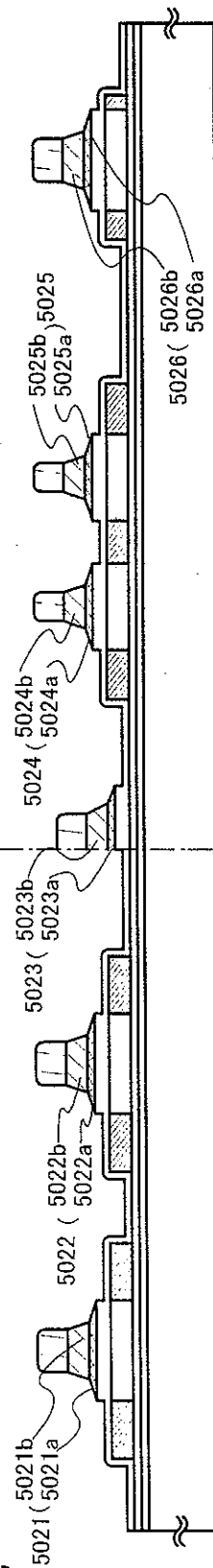


Fig. 6A

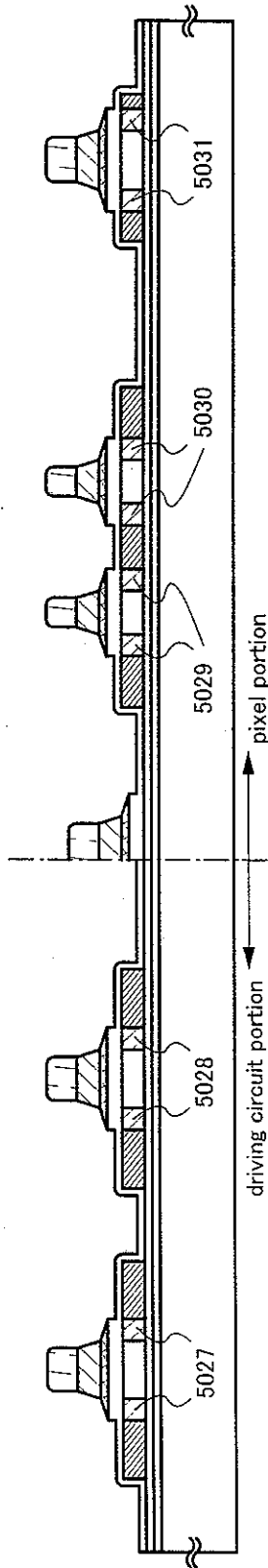


Fig. 6B

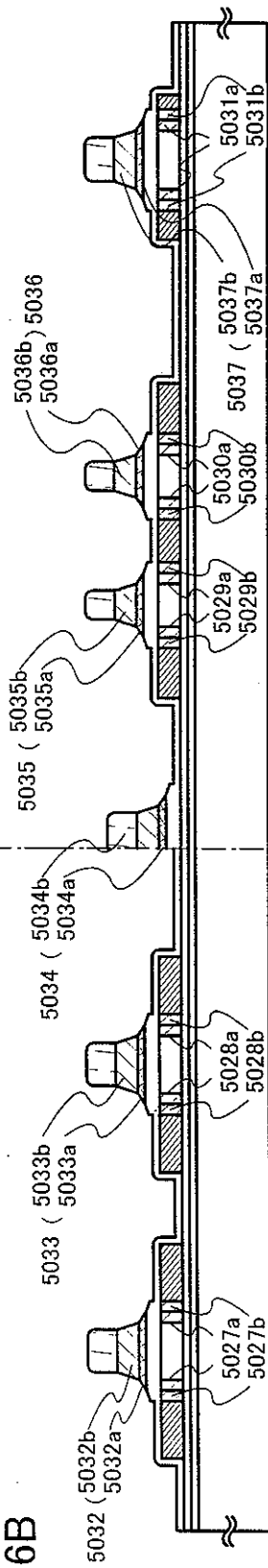


Fig. 6C

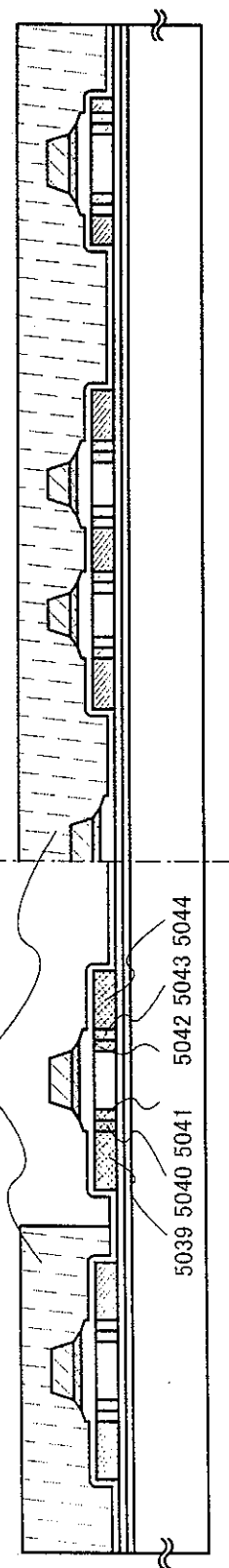


Fig. 7A

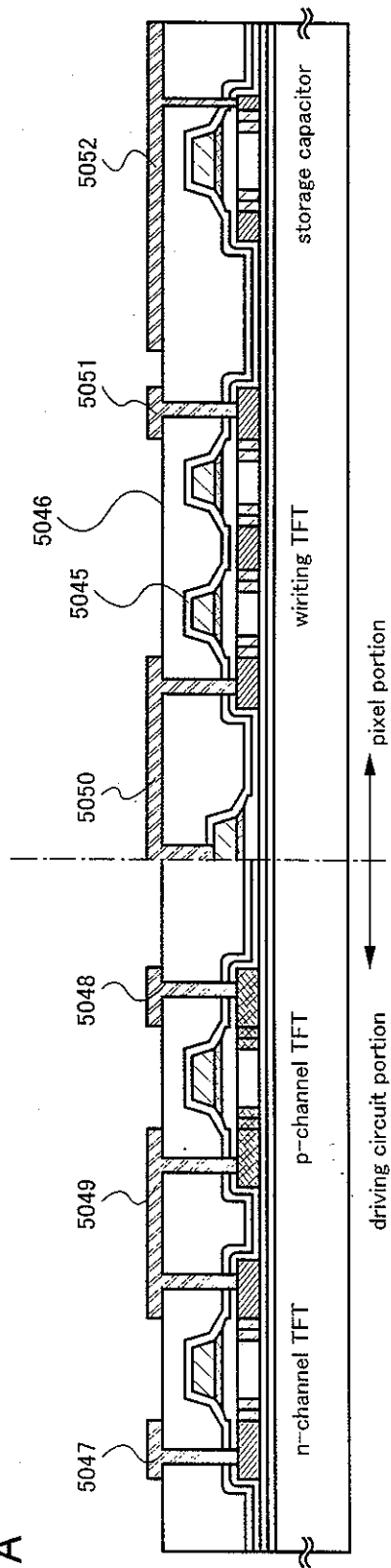


Fig. 7B

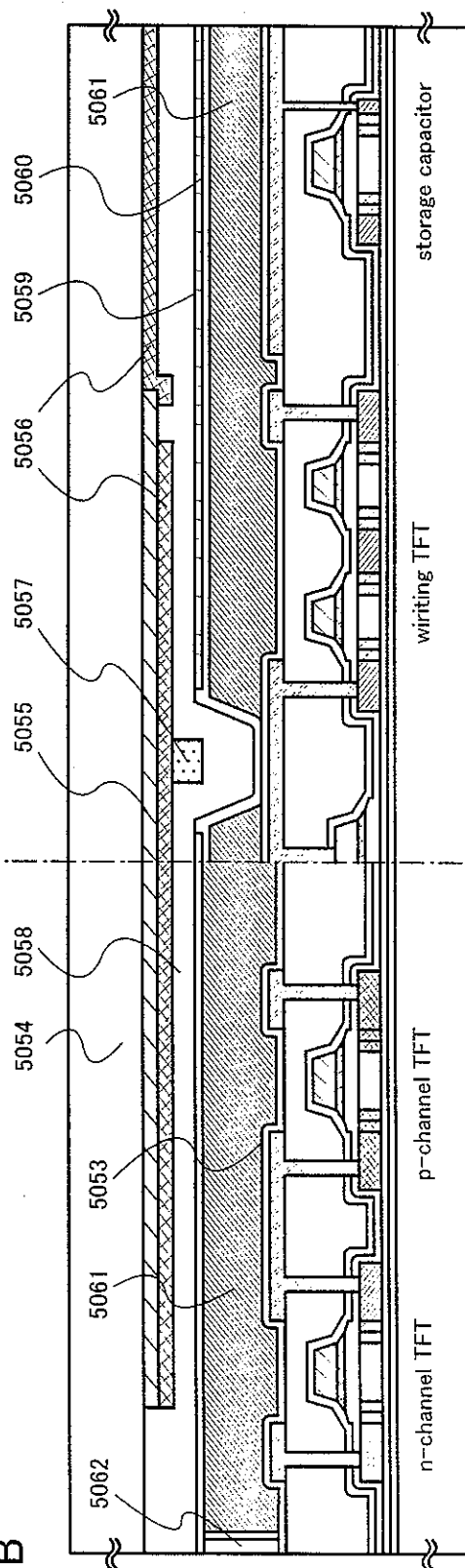


Fig. 8A

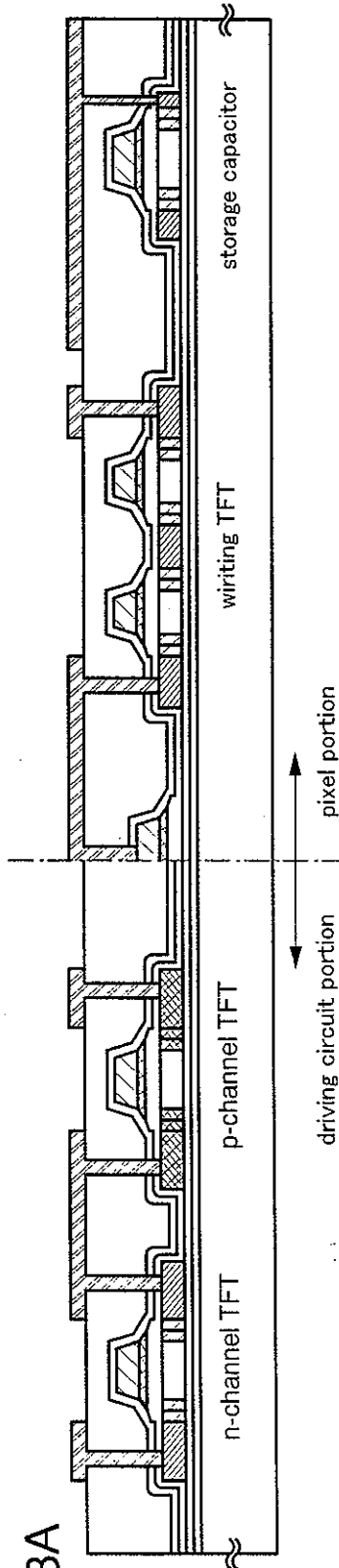


Fig. 8B

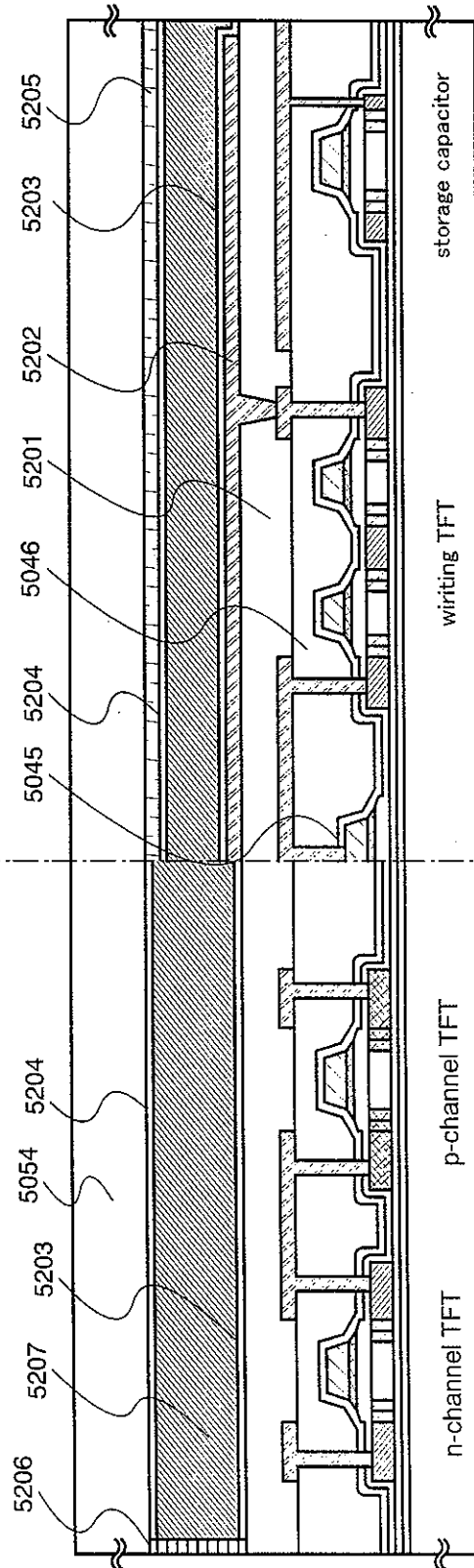


Table 1 1600x1200 Quantity of panels extracted from glass substrate

screen aspect	quantity	maximum panel size	screen area	panel area	total panel area	utilization factor %
4 : 3	2x2	36. 4 inch	739x554	749x569	1498x1138	88.8
	3x3	24 inch	488x365	498x380	1494x1140	88.7
	4x4	17. 7 inch	359x270	369x285	1476x1140	87.6
16 : 9	2x2	34 inch	755x425	765x440	1530x880	70.1
	2x3	29 inch	644x362	654x377	1308x1131	77
	3x3	21. 6 inch	479x269	489x284	1467x1137	86.8

Glass size 1600x1200

Usable range 1540x1140

Frame 15 vertical 10 horizontal (unit is mm)

utilization factor = glass substrate area / mother glass area

Table 2-1

1500x1125

Quantity of panels extracted from glass substrate

screen aspect	quantity	maximum panel size	screen area	panel area	total panel area	utilization factor %
4 : 3	2x2	33. 9 inch	689x517	699x532	1398x1064	88.1
	3x3	22. 3 inch	453x340	463x355	1389x1065	87.7
	4x4	16. 5 inch	334x251	344x266	1376x1064	86.8
16 : 9	2x2	32. 0 inch	710x399	720x414	1440x828	70.6
	2x3	27. 2 inch	604x340	614x355	1228x1065	77.5
	3x3	21. 1 inch	471x264	480x279	1440x837	71.4

Glass size 1500x1125

Usable range 1440x1065

Frame 15 vertical 10 horizontal (unit is mm)

Table 2-2

2000x1500

Quantity of panels extracted from glass substrate

screen aspect	quantity	maximum panel size	screen area	panel area	total panel area	utilization factor %
4 : 3	2x2	46. 2 inch	940x705	950x720	1900x1440	91.2
	3x3	30. 5 inch	620x465	630x480	1890x1440	90.2
	4x4	22. 6 inch	460x345	470x360	1880x1440	90.2
16 : 9	2x2	43. 2 inch	960x540	970x555	1940x1110	71.8
	2x3	37. 2 inch	826x465	836x480	1672x1440	80.2
	3x3	28. 6 inch	636x357	646x372	1938x1116	72.1

Glass size 2000x1500

Usable range 1940x1440

Frame 15 vertical 10 horizontal (unit is mm)

Table 2-3

2600x1500

Quantity of panels extracted from glass substrate

screen aspect	quantity	maximum panel size	screen area	panel area	total panel area	utilization factor %
4 : 3	2x2	46. 2 inch	940x705	950x720	1900x1440	70.1
	3x2	41. 1 inch	836x627	846x642	2538x1284	83.5
	4x3	30. 5 inch	620x465	630x480	2520x1440	93
16 : 9	2x2	56. 4 inch	1253x705	1263x720	2526x1440	93.2
	3x3	37. 2 inch	826x465	836x480	2508x1440	92.6
	4x4	27. 6 inch	613x345	623x360	2492x1440	92

Glass size 2600x1500

Usable range 2540x1440

Frame 15 vertical 10 horizontal (unit is mm)

utilization factor = total panel area / glass area