FIG. 1

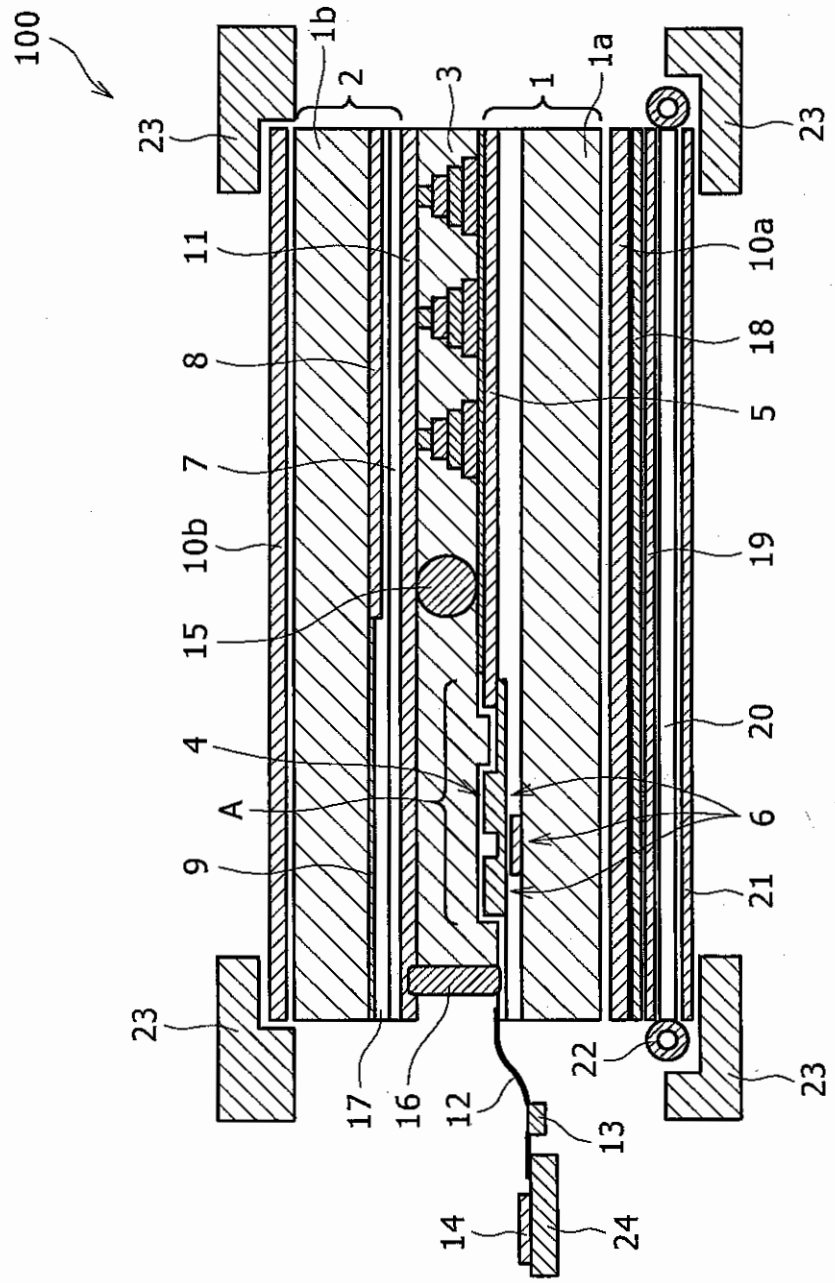

100
1b
2
3
1
1a
23
11
10a
8
18
5
7
19
10b
15
20
4
A
6
9
21
23
22
23
17
16
12
13
14
24

FIG. 2

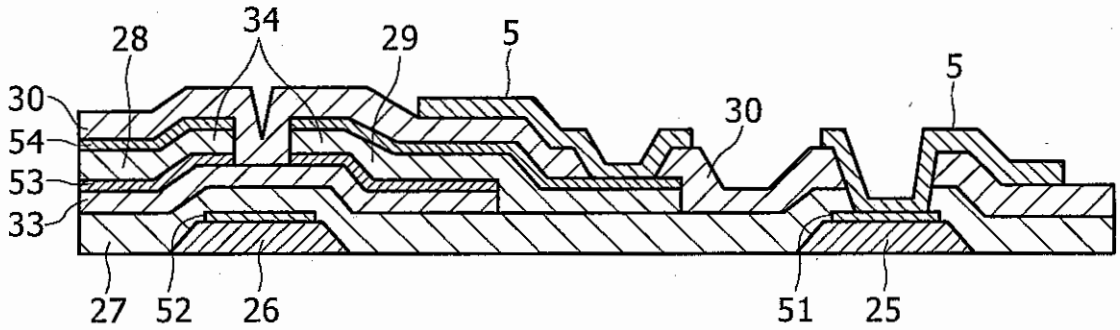

28
34
29
5
5
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30
54
53
33
27
52
26
51
25

FIG. 3

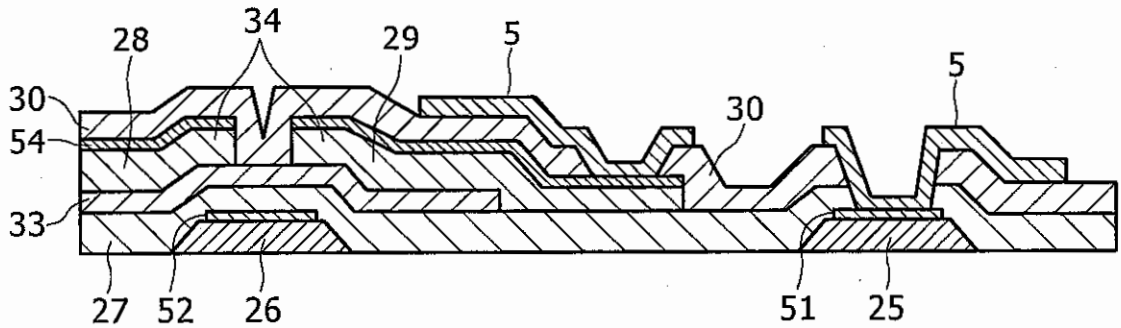

28
34
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30
54
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27
52
26
51
25

FIG. 4A

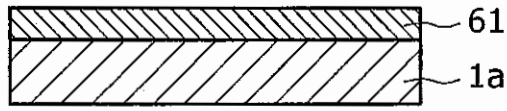


FIG. 4B

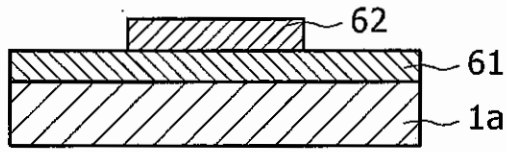


FIG. 4C

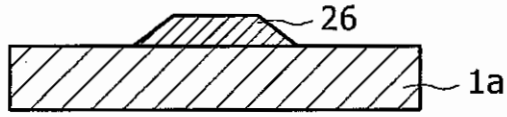


FIG. 4D

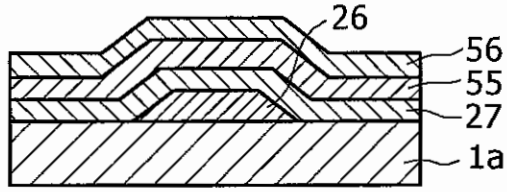


FIG. 4E

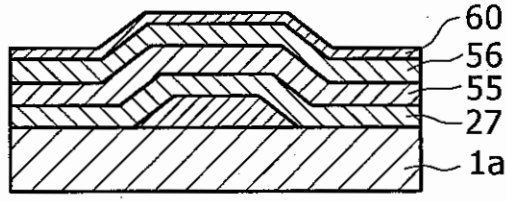


FIG. 4F

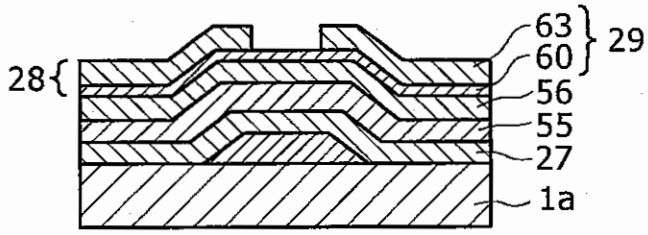


FIG. 4G

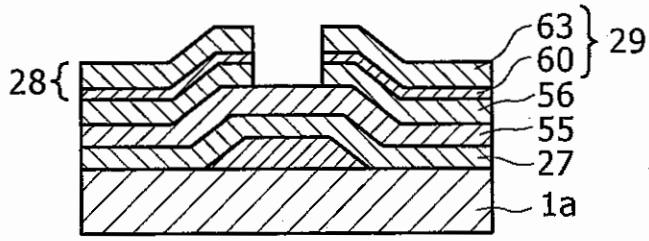


FIG. 5

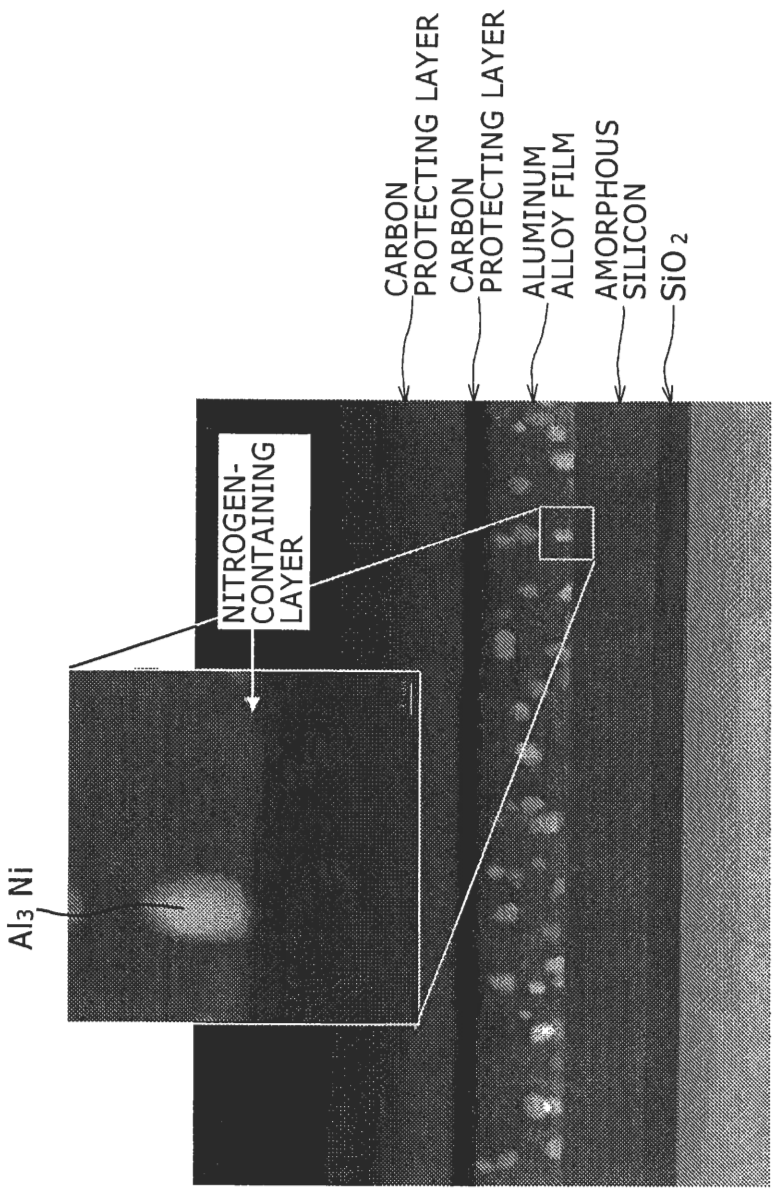

CARBON PROTECTING LAYER
CARBON PROTECTING LAYER
ALUMINUM ALLOY FILM
AMORPHOUS SILICON
SiO_2
NITROGEN-CONTAINING LAYER
Al_3Ni

FIG. 6

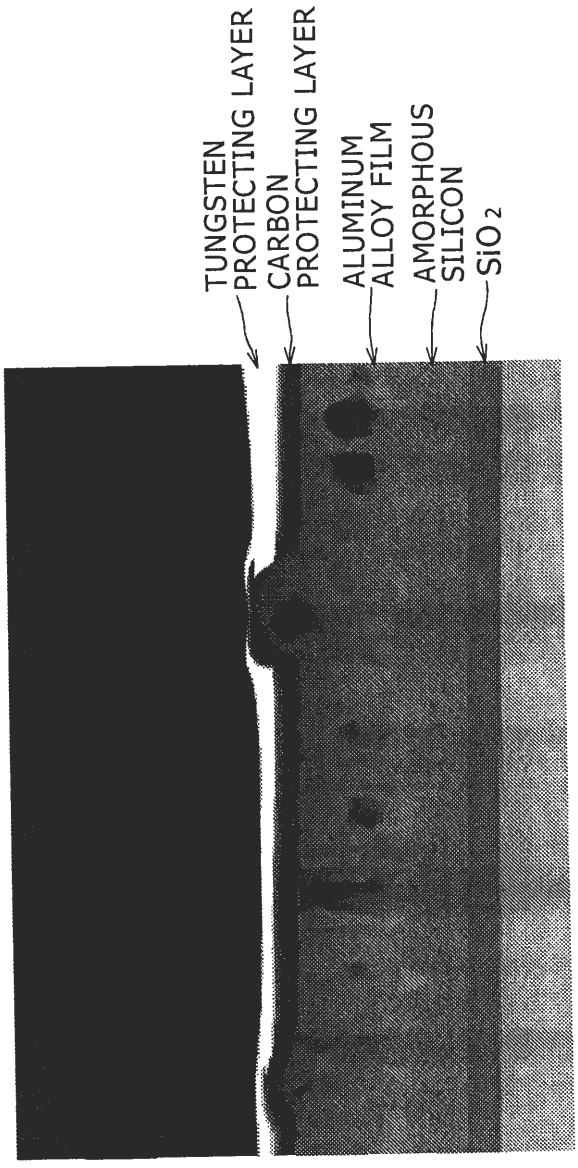

TUNGSTEN PROTECTING LAYER
CARBON PROTECTING LAYER
ALUMINUM ALLOY FILM
AMORPHOUS SILICON
SiO2

FIG. 7

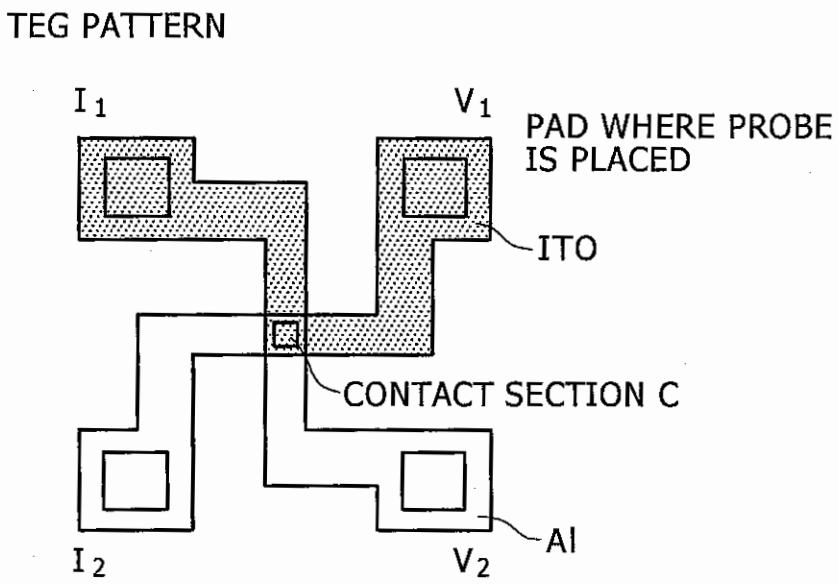

TEG PATTERN
I1
V1
PAD WHERE PROBE IS PLACED
ITO
CONTACT SECTION C
Al
I2
V2

FIG. 8

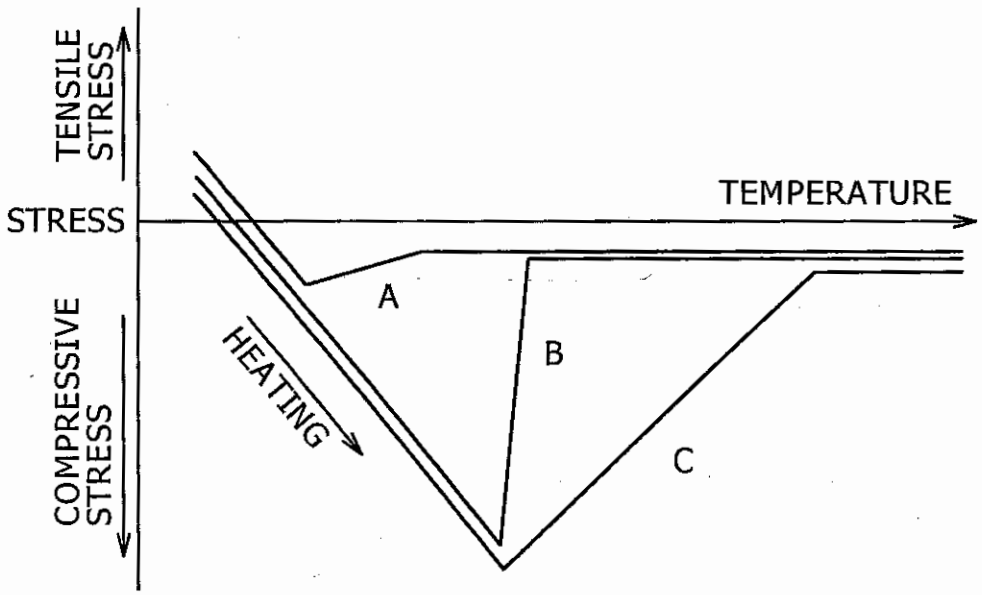

TENSILE STRESS
STRESS
COMPRESSIVE STRESS
TEMPERATURE
HEATING
A
B
C

FIG. 9

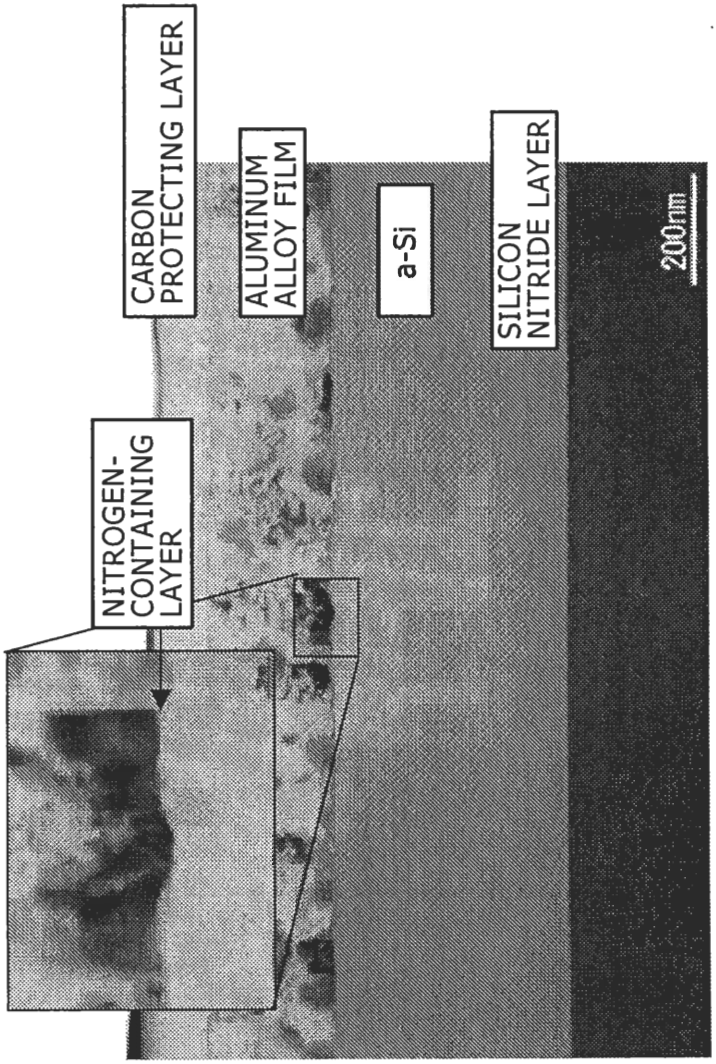
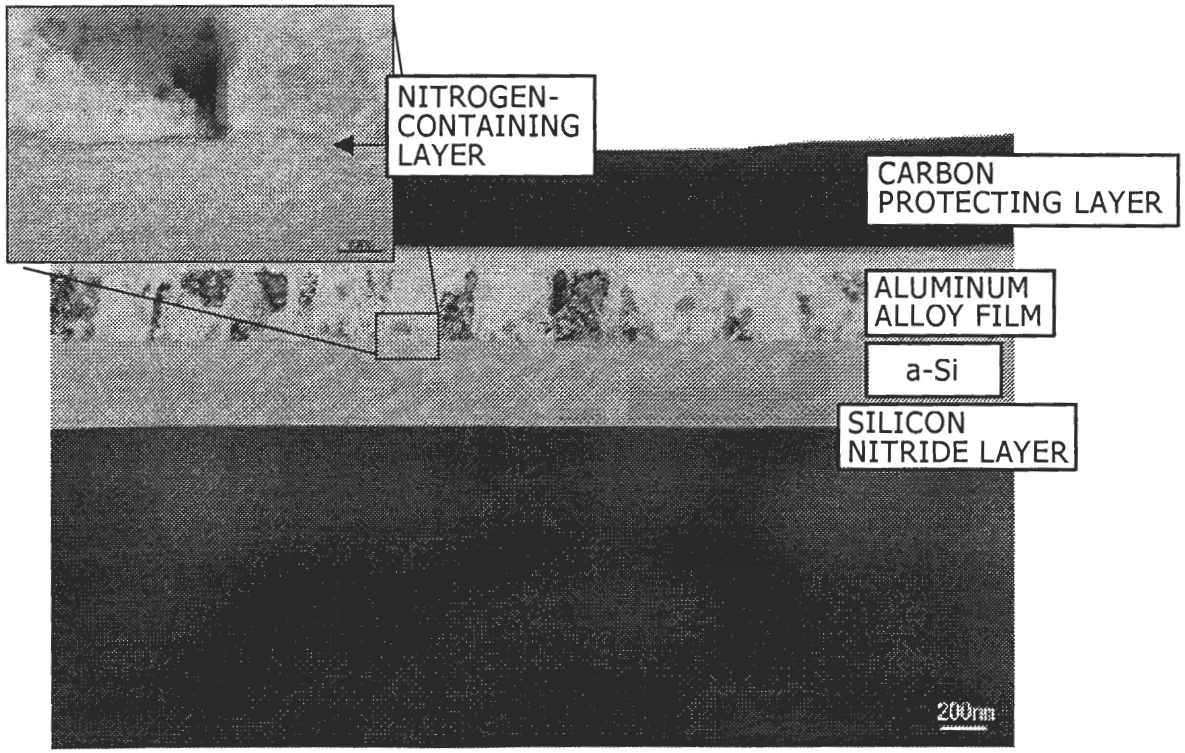

NITROGEN-CONTAINING LAYER
CARBON PROTECTING LAYER
ALUMINUM ALLOY FILM
a-Si
SILICON NITRIDE LAYER
200nm

FIG. 10


NITROGEN-
CONTAINING
LAYER
CARBON
PROTECTING LAYER
ALUMINUM
ALLOY FILM
a-Si
SILICON
NITRIDE LAYER
200nm