FIG. 1

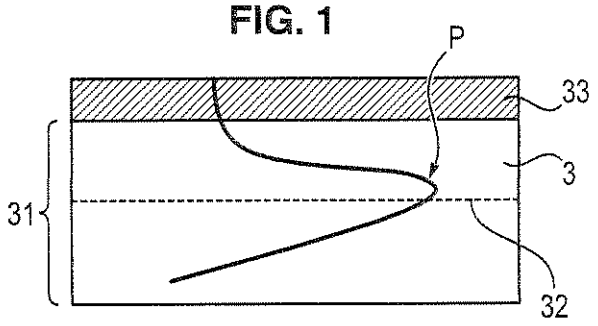


FIG. 2A

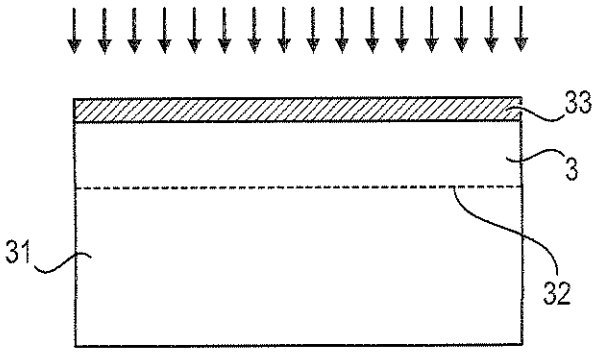


FIG. 2B

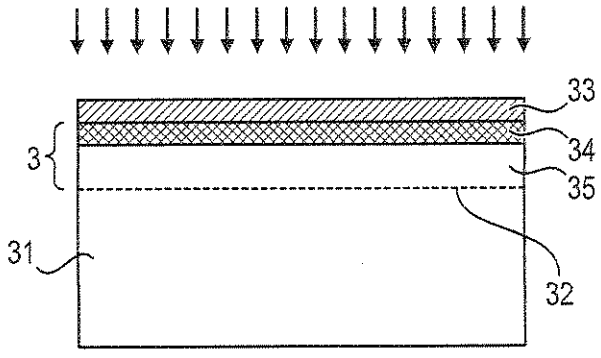


FIG. 2C

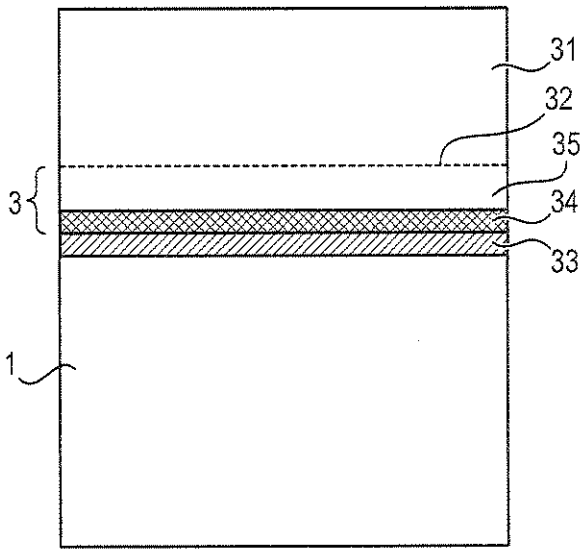


FIG. 2D

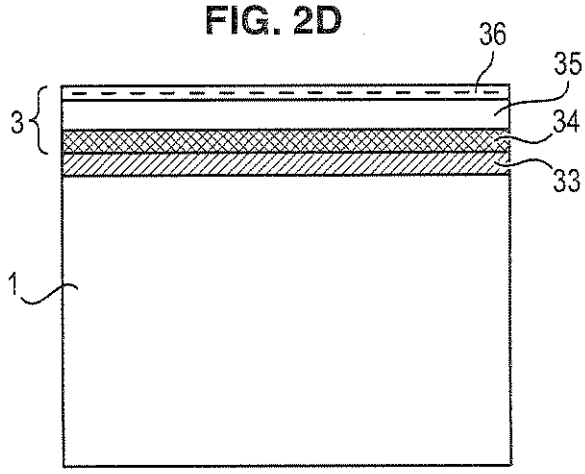


FIG. 2E

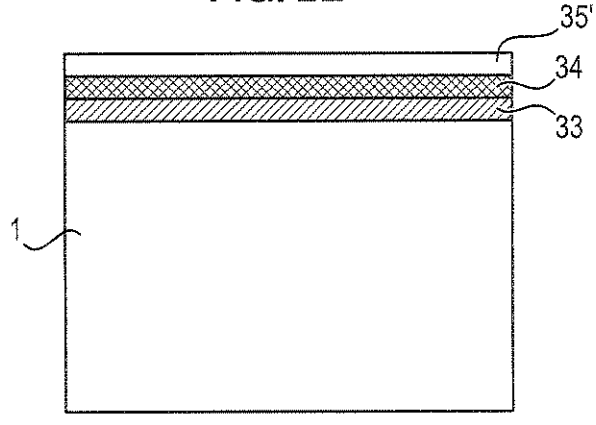


FIG. 2F

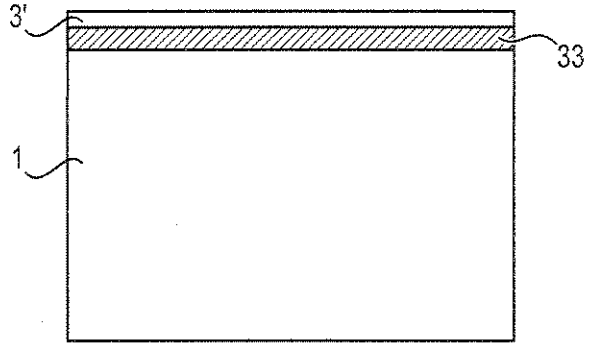


FIG. 3

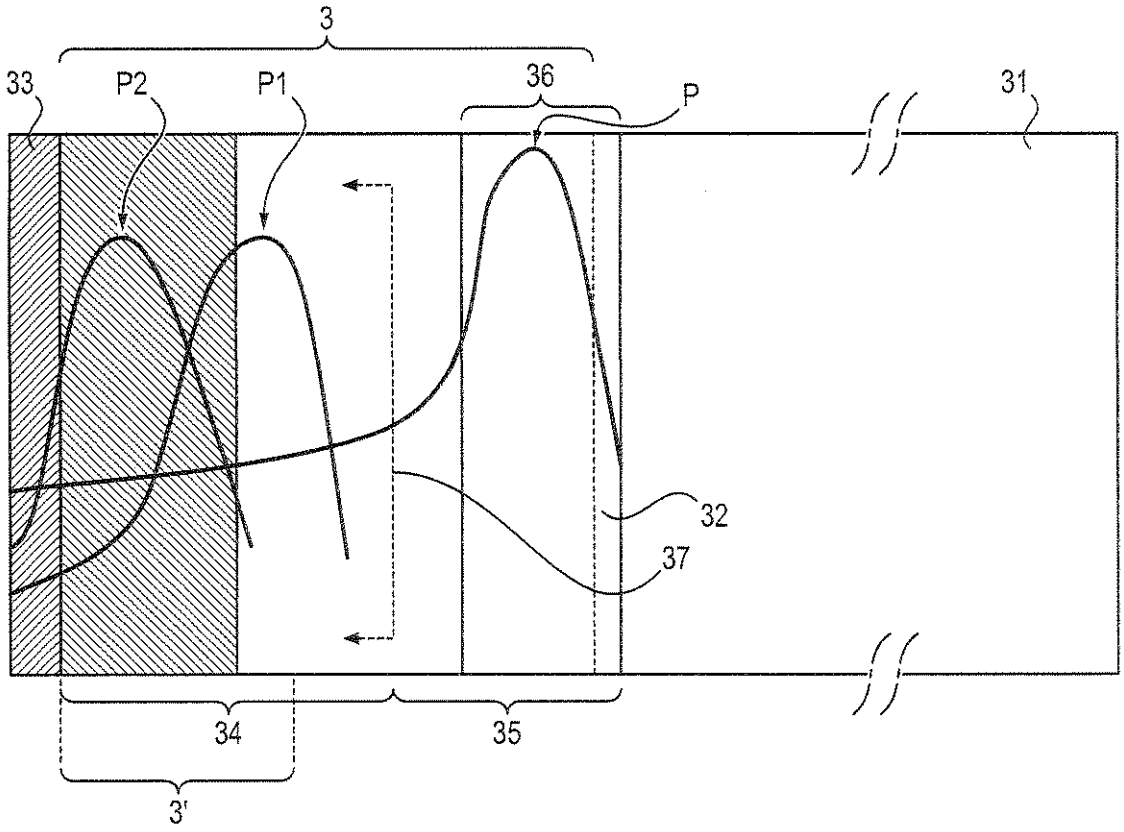


FIG. 4A

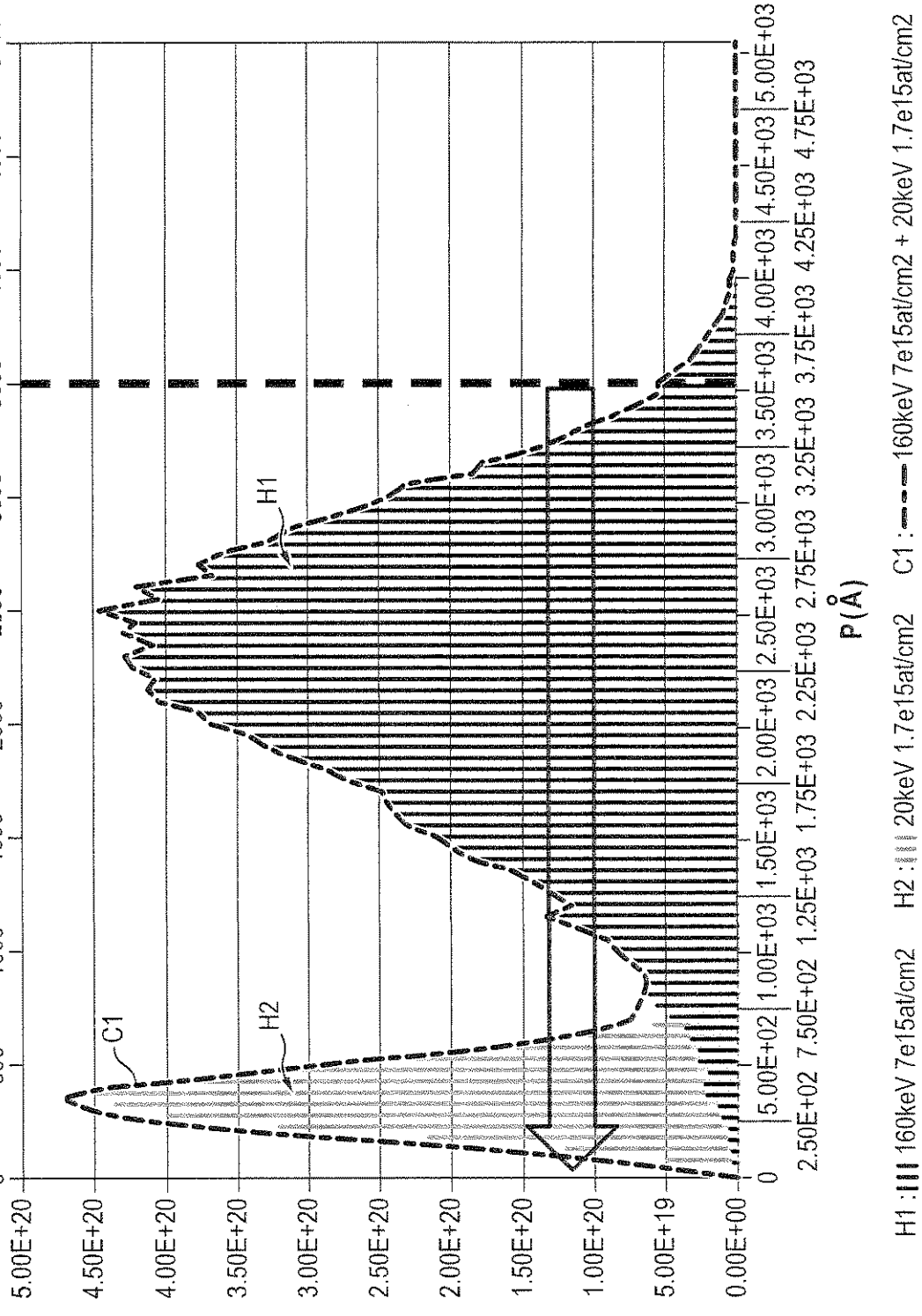

5.00E+20
4.50E+20
4.00E+20
3.50E+20
3.00E+20
2.50E+20
2.00E+20
1.50E+20
1.00E+20
5.00E+19
0.00E+00
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
C1
H2
H1
2.50E+02 7.50E+02 1.25E+03 1.75E+03 2.25E+03 2.75E+03 3.25E+03 3.75E+03 4.25E+03 4.75E+03
0 5.00E+02 1.00E+03 1.50E+03 2.00E+03 2.50E+03 3.00E+03 3.50E+03 4.00E+03 4.50E+03 5.00E+03
P (Å)
H1 : 160keV 7e15at/cm2 H2 : 20keV 1.7e15at/cm2 C1 : 160keV 7e15at/cm2 + 20keV 1.7e15at/cm2

FIG. 4B

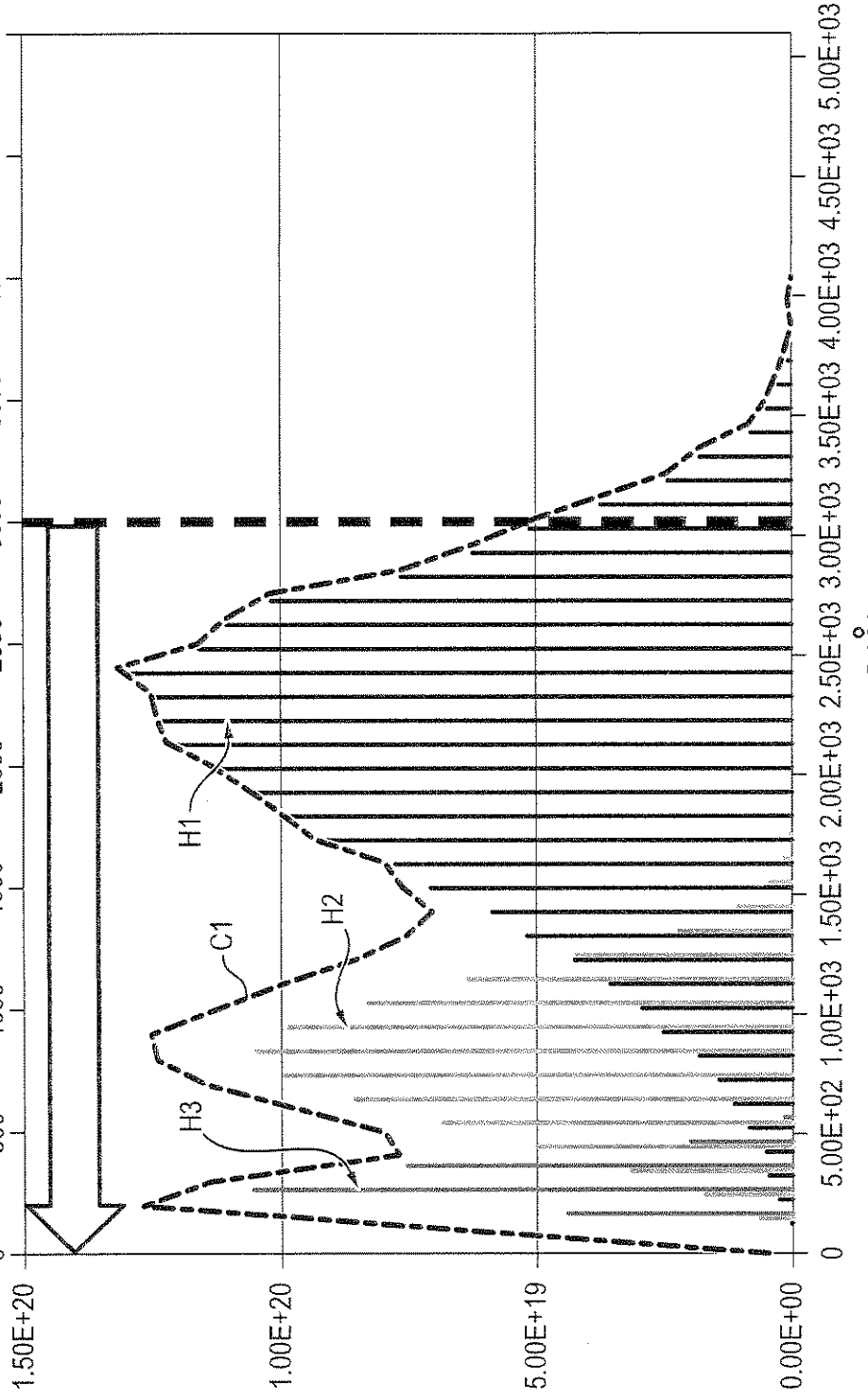

1.50E+20
1.00E+20
5.00E+19
0.00E+00
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5.00E+02
1.00E+03
1.50E+03
2.00E+03
2.50E+03
3.00E+03
3.50E+03
4.00E+03
4.50E+03
5.00E+03
P (Å)
H1
H2
H3
C1
H1 : 150keV 2e15at/cm2 H2 : 50keV 5e14at/cm2 H3 : 10keV 3e14at/cm2
C1 : 150keV 2e15at/cm2 + 50keV 5e14at/cm2 + 10keV 3e14at/cm2

FIG. 5

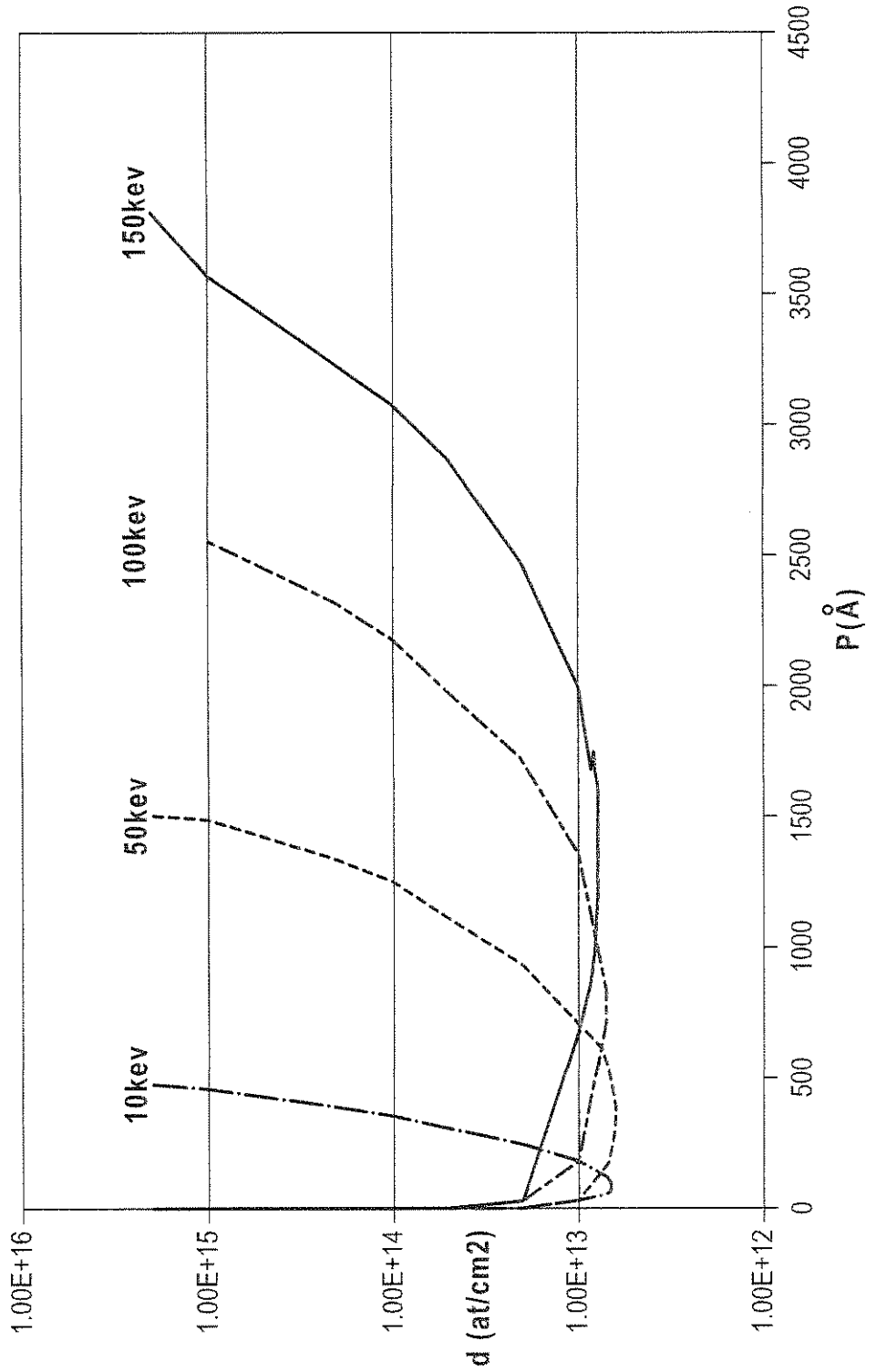

150kev
100kev
50kev
10kev
1.00E+16
1.00E+15
1.00E+14
1.00E+13
1.00E+12
d (at/cm2)
0
500
1000
1500
2000
2500
3000
3500
4000
4500
P(Å)

FIG. 6

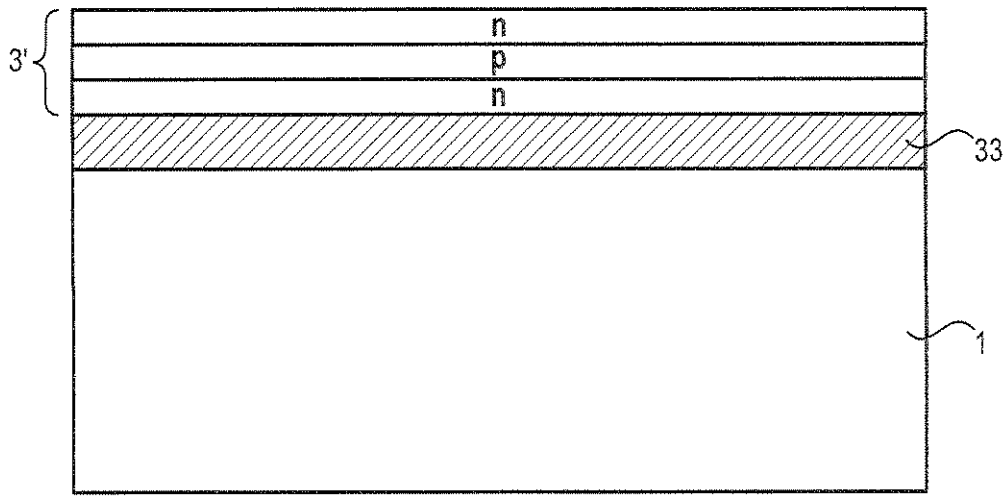


FIG. 7A

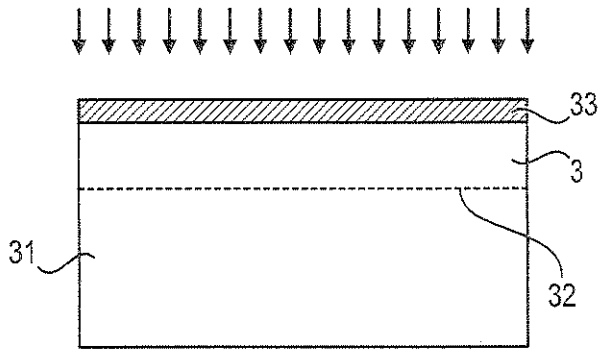


FIG. 7B

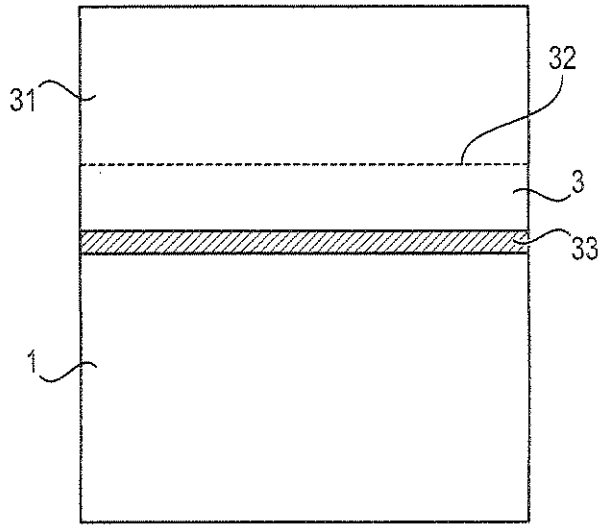


FIG. 7C

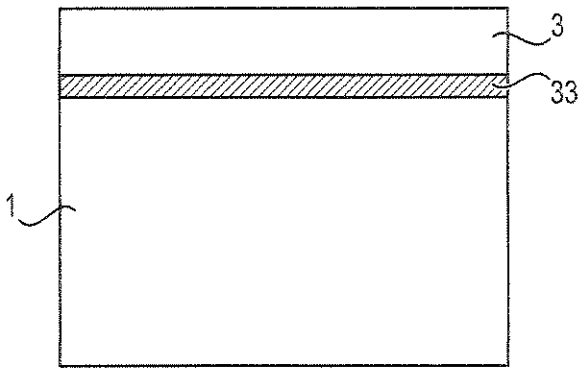


FIG. 7D

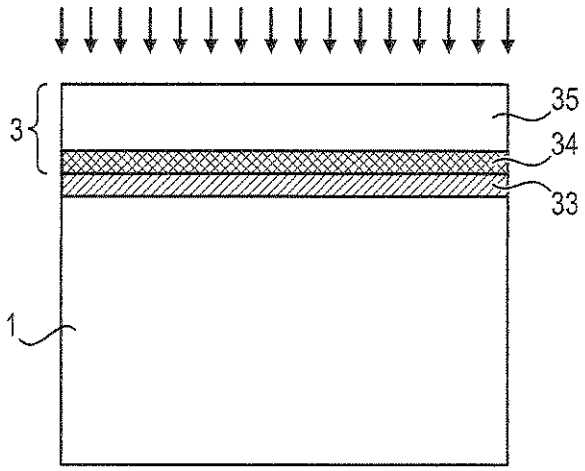


FIG. 7E

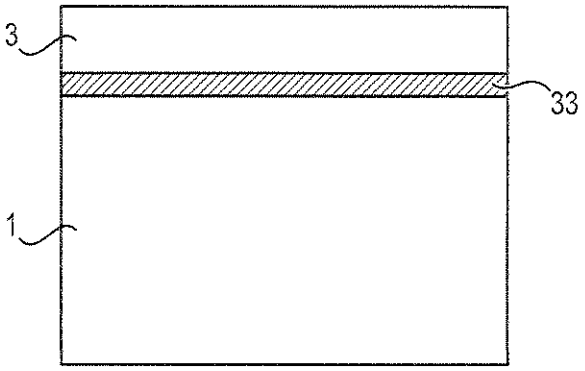


FIG. 7F

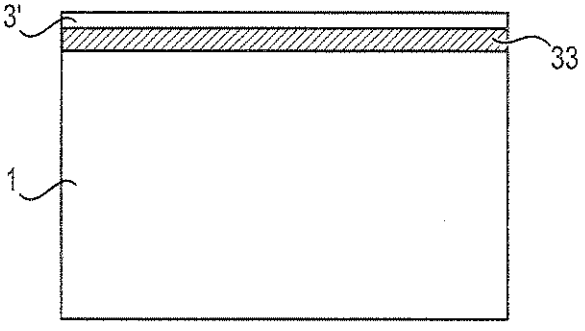


FIG. 8

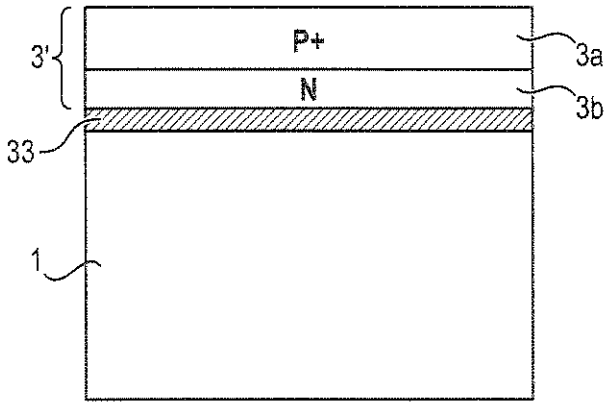


FIG. 9A

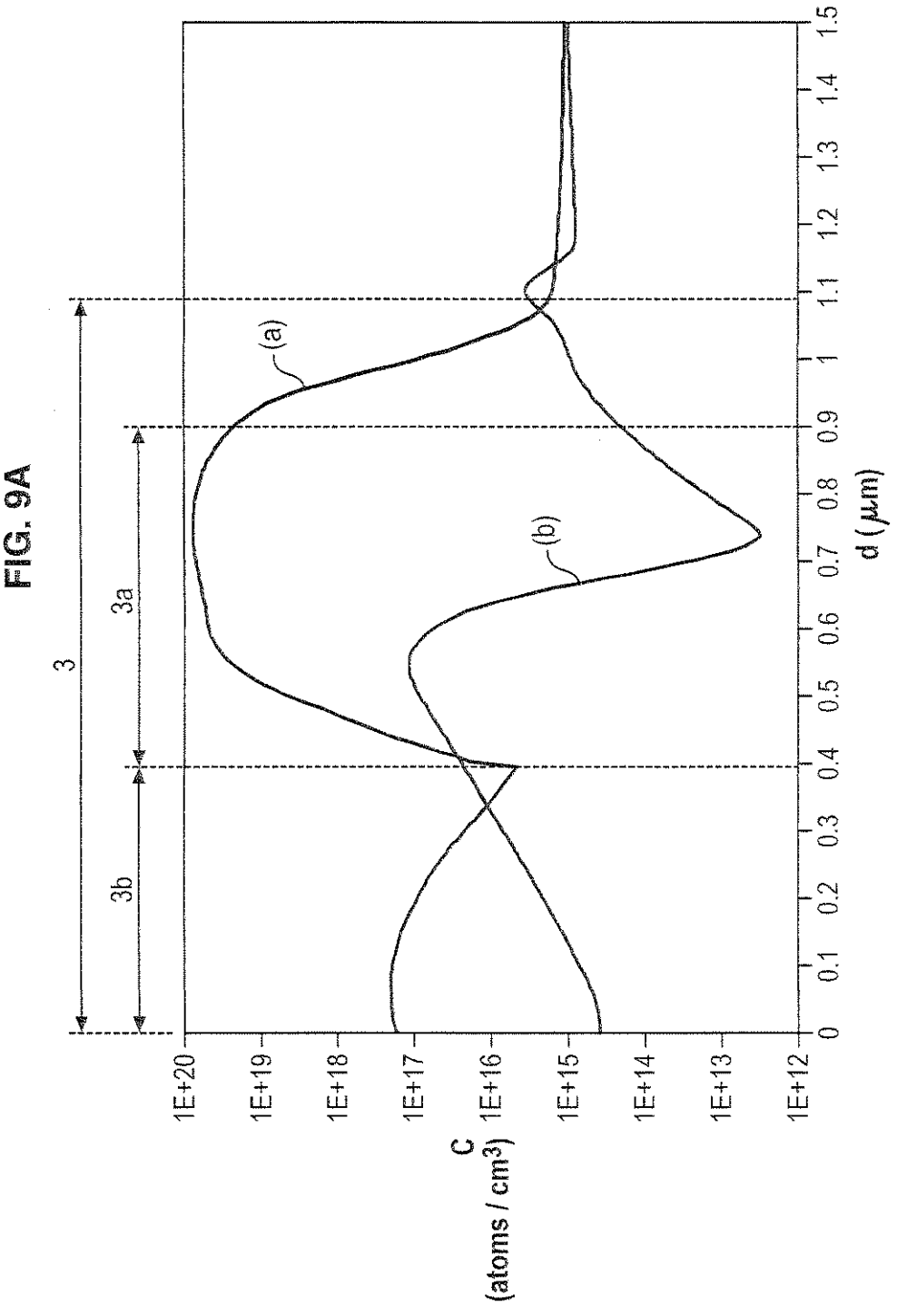

3
3a
3b
(a)
(b)
C
(atoms / cm3)
1E+20
1E+19
1E+18
1E+17
1E+16
1E+15
1E+14
1E+13
1E+12
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1.1
1.2
1.3
1.4
1.5
d (µm)

FIG. 9B

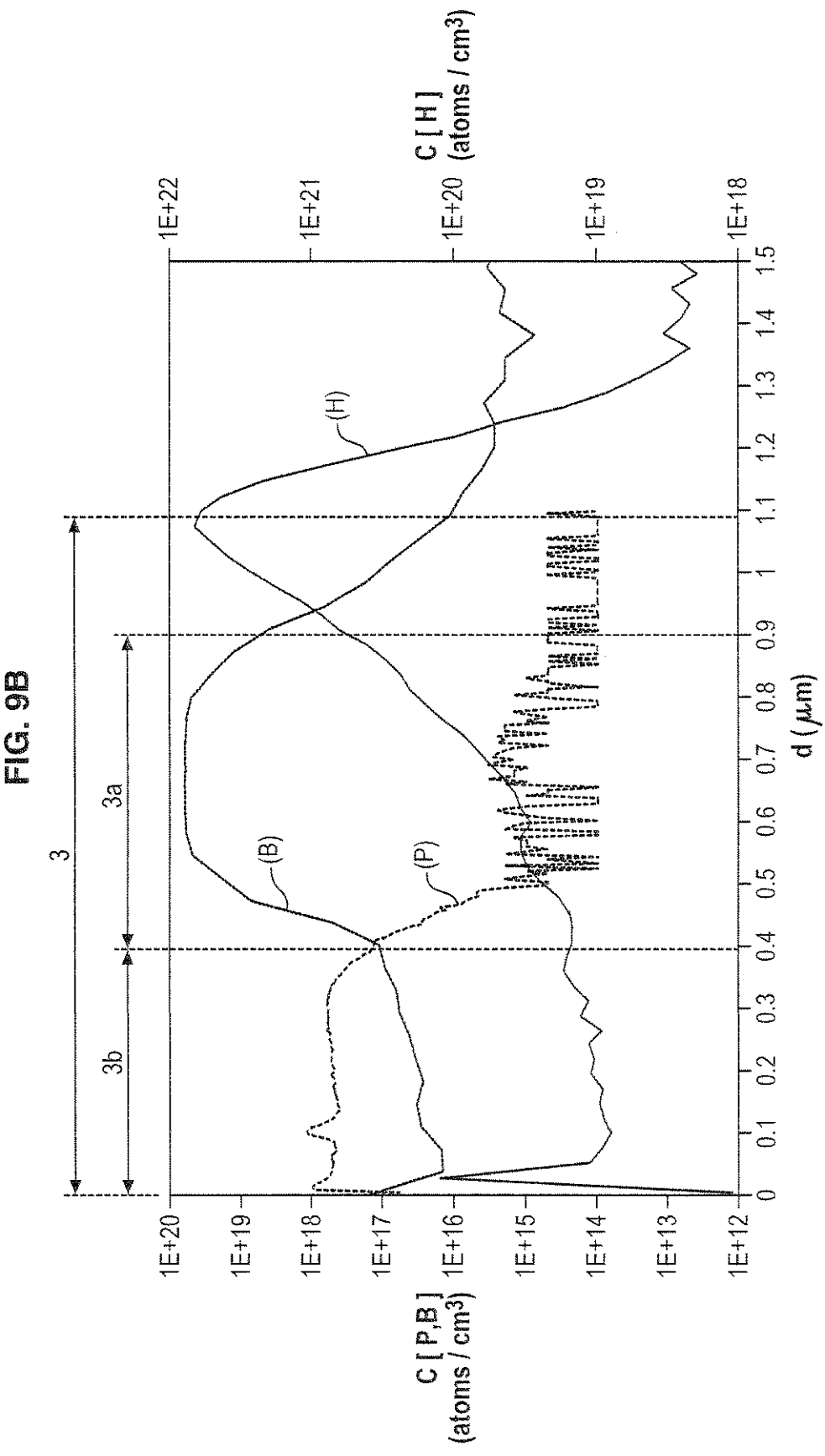

C [H] (atoms / cm3)
1E+22
1E+21
1E+20
1E+19
1E+18
(H)
3
3a
3b
(B)
(P)
C [P,B] (atoms / cm3)
1E+20
1E+19
1E+18
1E+17
1E+16
1E+15
1E+14
1E+13
1E+12
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1.1
1.2
1.3
1.4
1.5
d (μm)

FIG. 10A

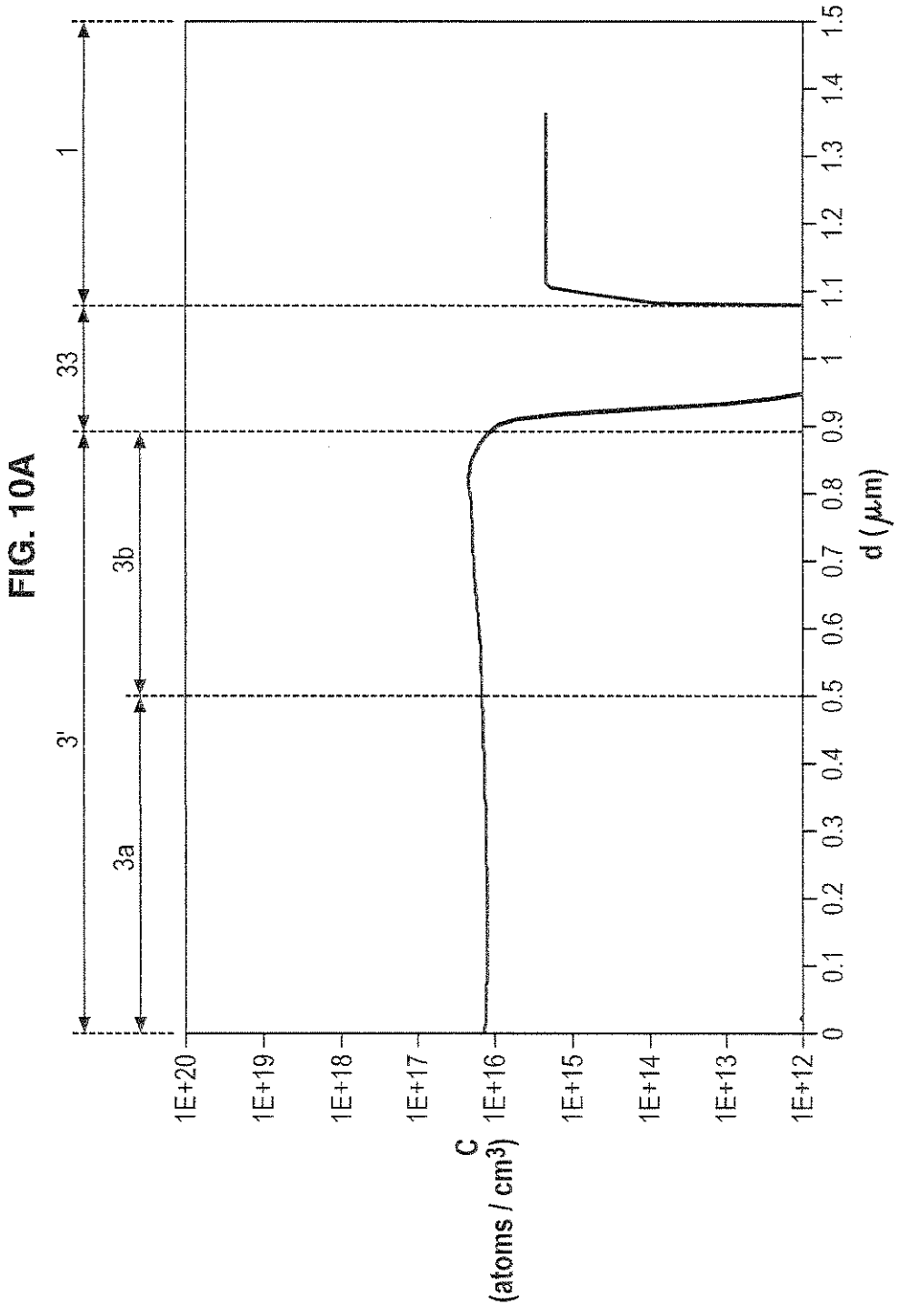

1
33
3'
3b
3a
C
(atoms / cm3)
1E+20
1E+19
1E+18
1E+17
1E+16
1E+15
1E+14
1E+13
1E+12
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1.1
1.2
1.3
1.4
1.5
d (μm)

FIG. 10B

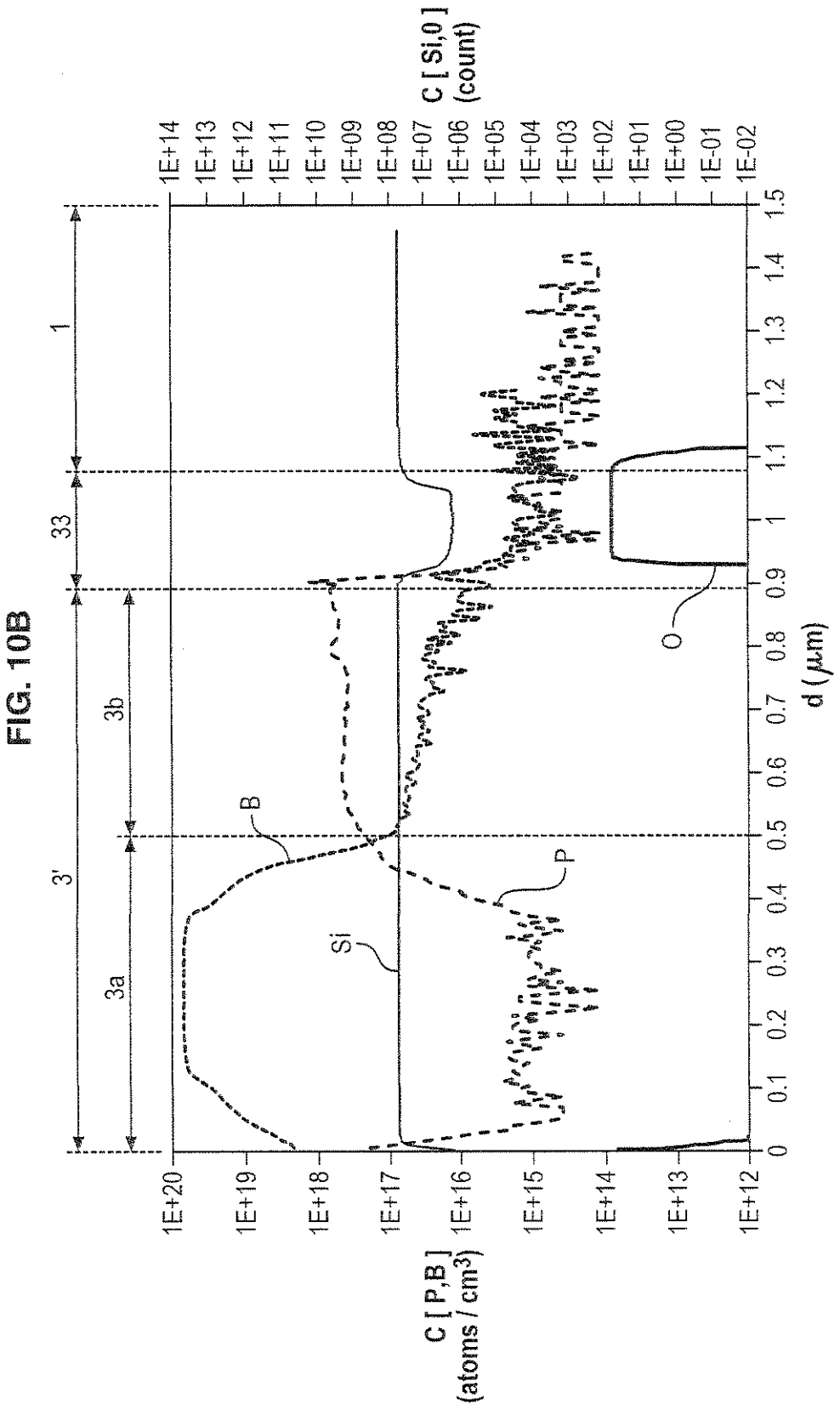


FIG. 11

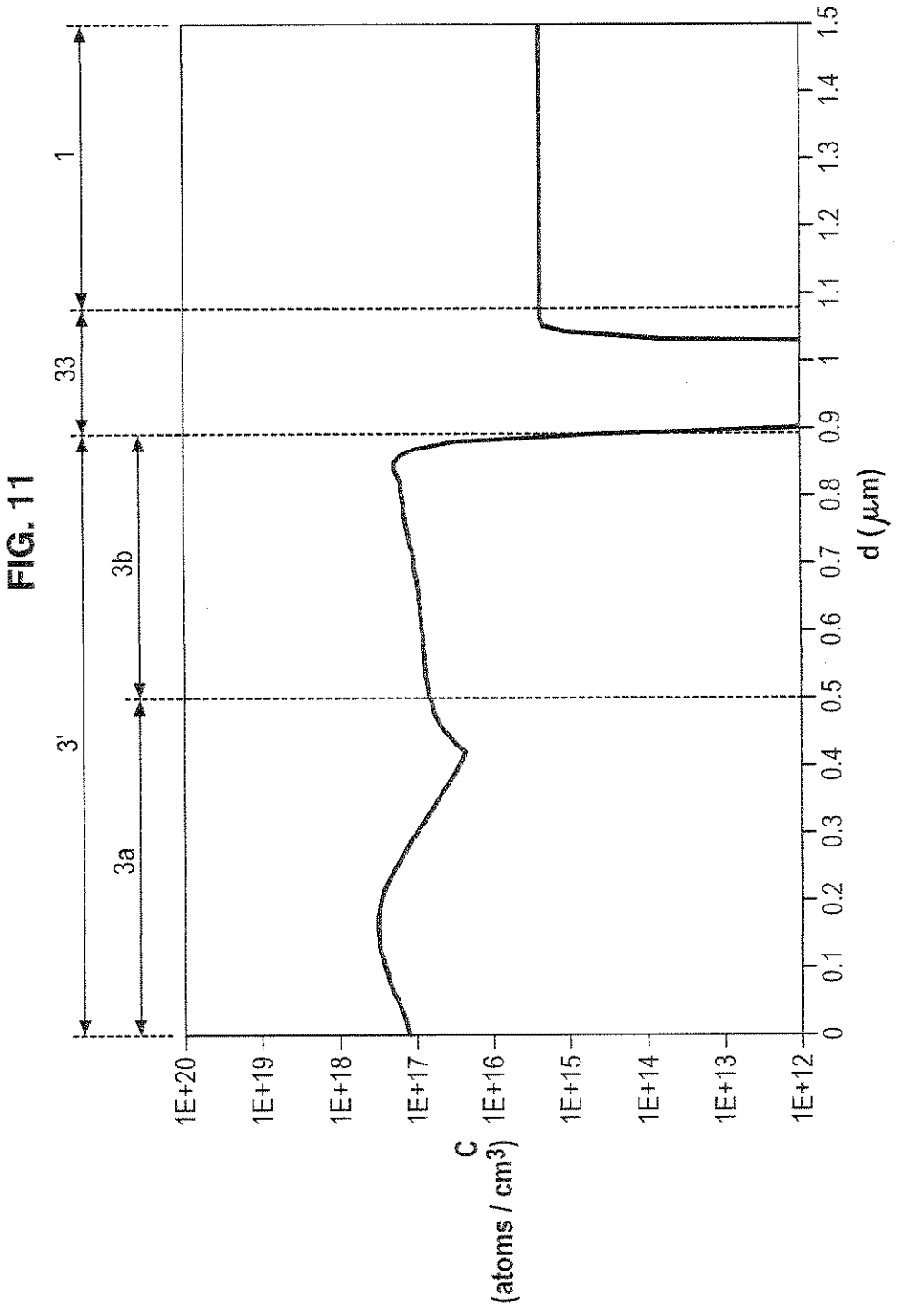

1
33
3'
3a
3b
1E+20
1E+19
1E+18
1E+17
1E+16
1E+15
1E+14
1E+13
1E+12
C
(atoms / cm3)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1.1
1.2
1.3
1.4
1.5
d (μm)

FIG. 12A

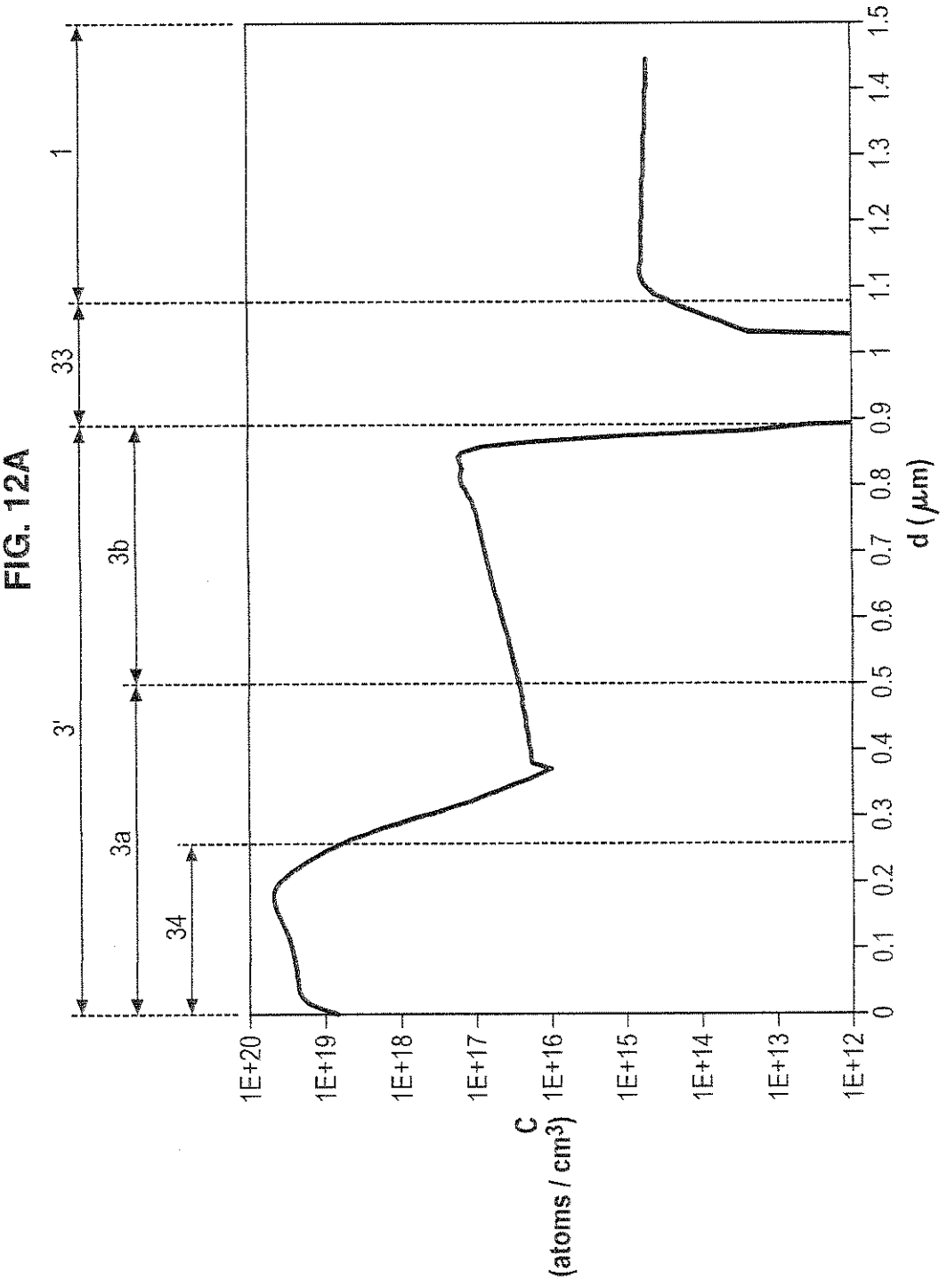

1
33
3'
3b
3a
34
1E+20
1E+19
1E+18
1E+17
1E+16
1E+15
1E+14
1E+13
1E+12
C
(atoms / cm3)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1.1
1.2
1.3
1.4
1.5
d (μm)

FIG. 12B

