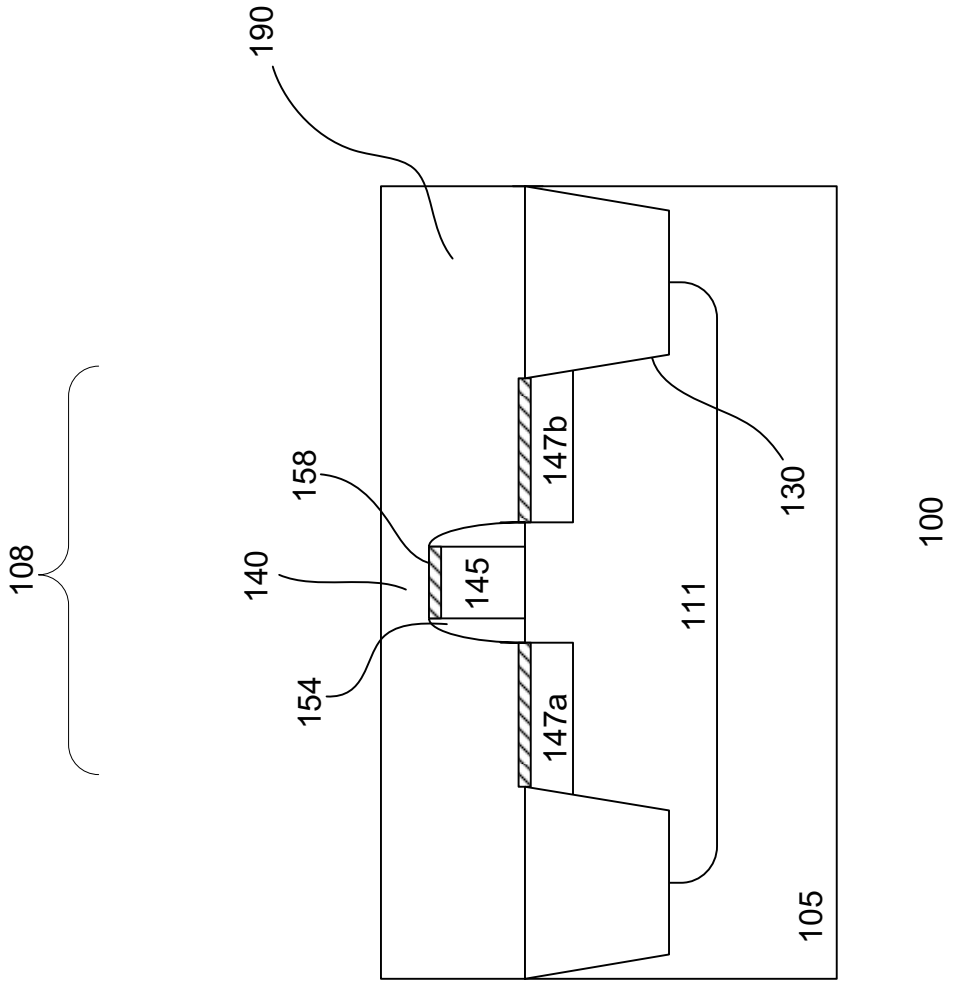


Fig. 1

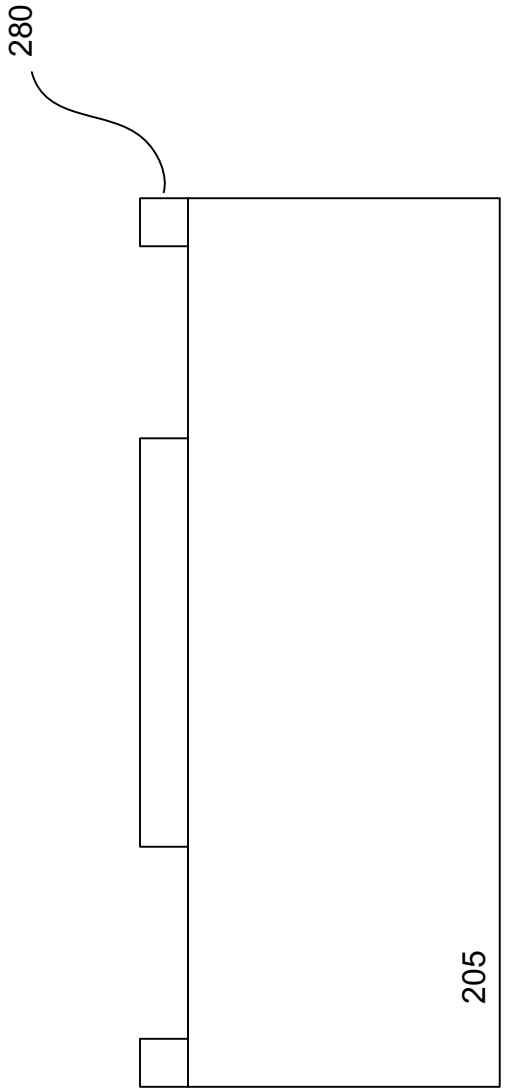


Fig. 2a

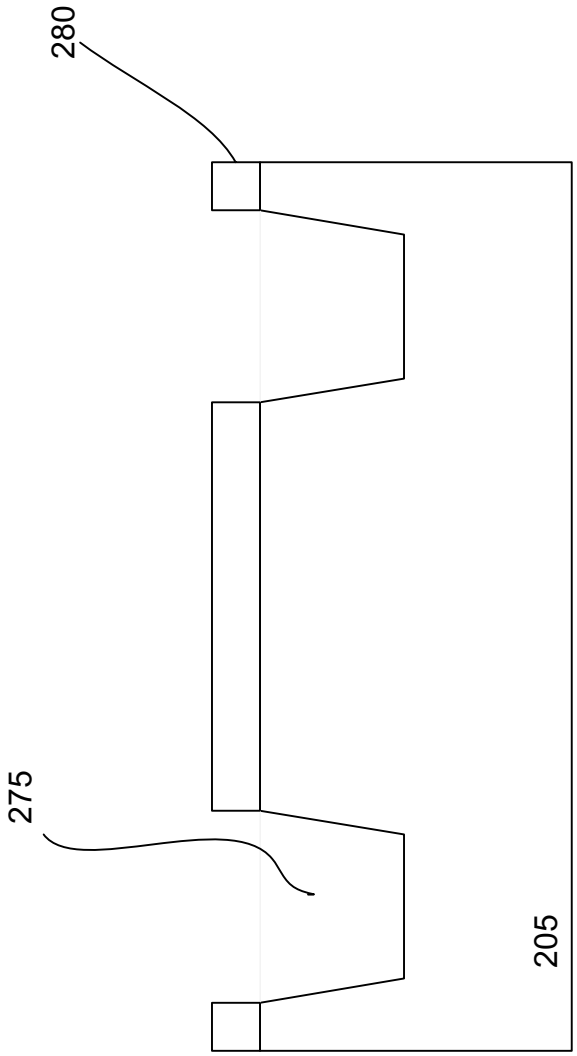


Fig. 2b

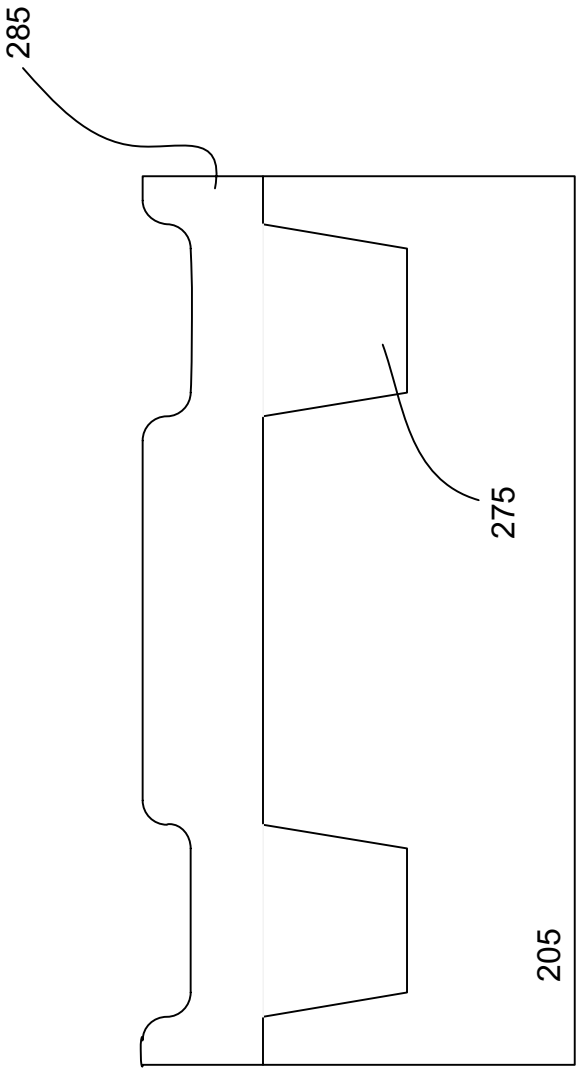


Fig. 2c

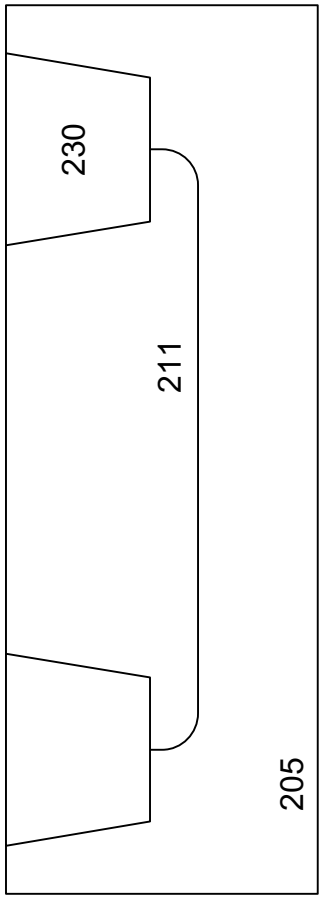


Fig. 2d

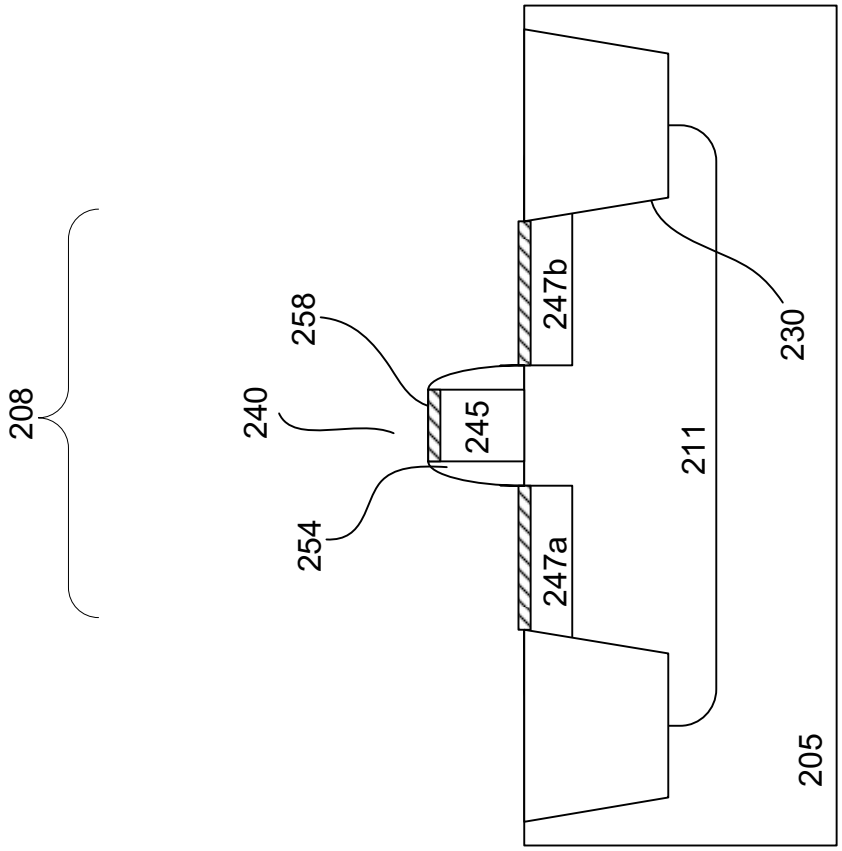


Fig. 2e

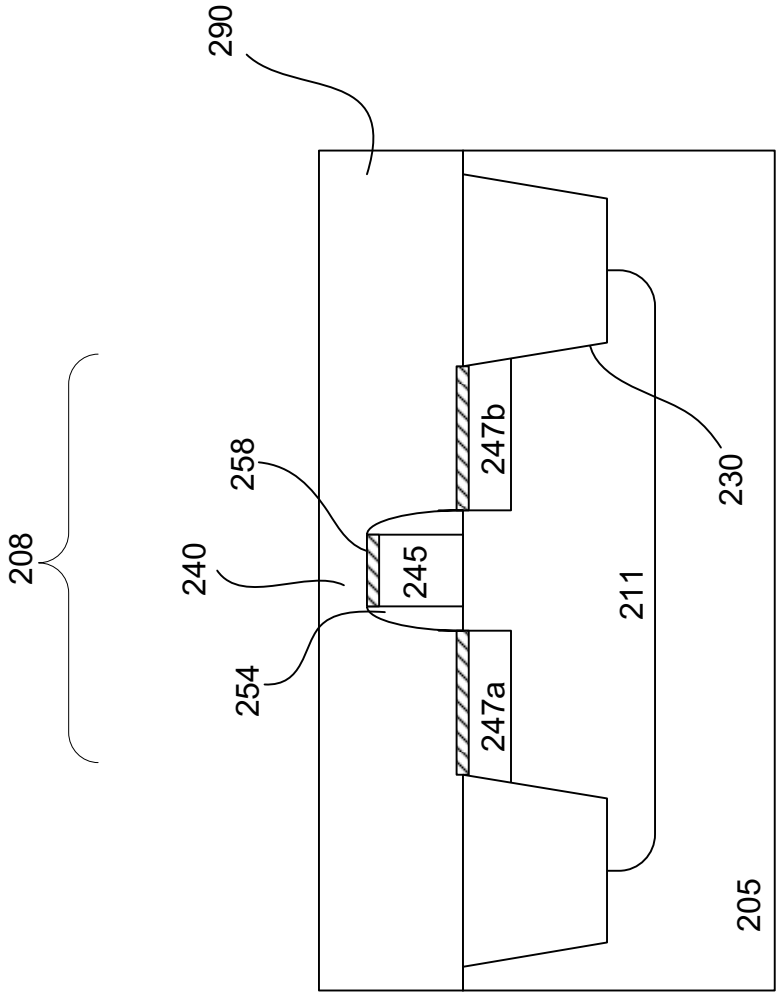


Fig. 2f

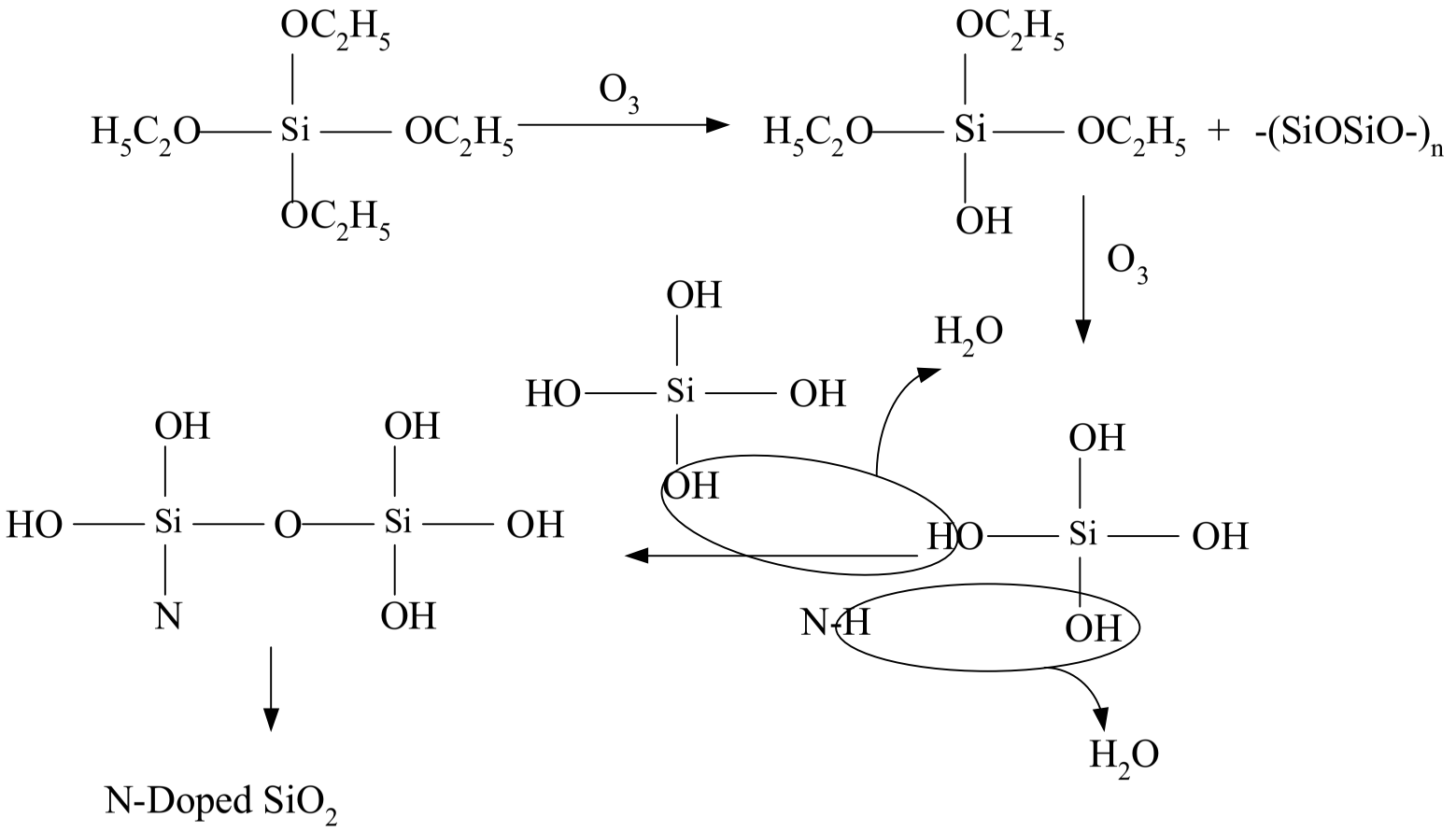

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O3
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OH
O3
OH
H2O
HO
Si
OH
OH
OH
OH
HO
Si
O
Si
OH
HO
Si
OH
N
OH
N-H
OH
H2O
N-Doped SiO2

Fig. 3