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(54) **SEMICONDUCTOR DEVICE AND METHOD FOR MANUFACTURING THE SAME**

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(57) **ABSTRACT**

To provide a semiconductor device with reduced parasitic capacity in the vicinity of gate electrodes, and a method for manufacturing such a semiconductor device. The semiconductor device comprises a gate electrode formed on a silicon semiconductor substrate 1 through a gate oxide film, and a pair of impurity diffusion layers formed on the surface region of the silicon semiconductor substrate at both sides of the gate electrode. A silicon nitride film acting as a sidewall spacer is formed so as to cover the sidewall of the gate electrode, and the silicon nitride film is allowed to extend to the surface of the silicon semiconductor substrate 1 in the vicinity of the gate electrode in a substantially L-shaped profile.

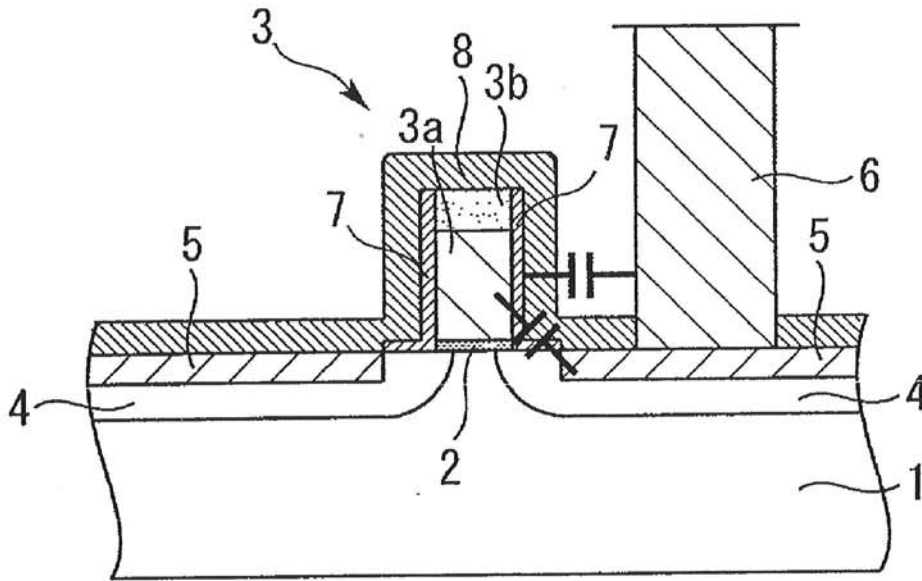
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Apr. 6, 2001 (JP) 2001-108720



IP Bridge Exhibit 2212
TSMC v. Godo Kaisha IP Bridge 1
IPB2017-01842

Fig. 1

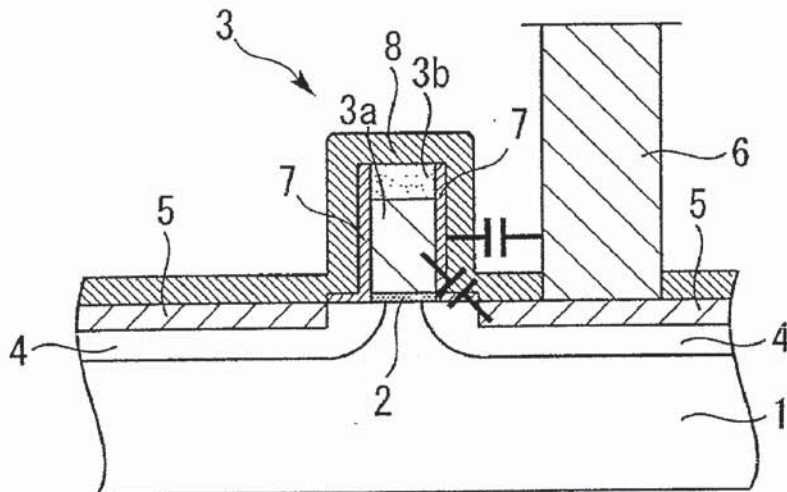


Fig. 2

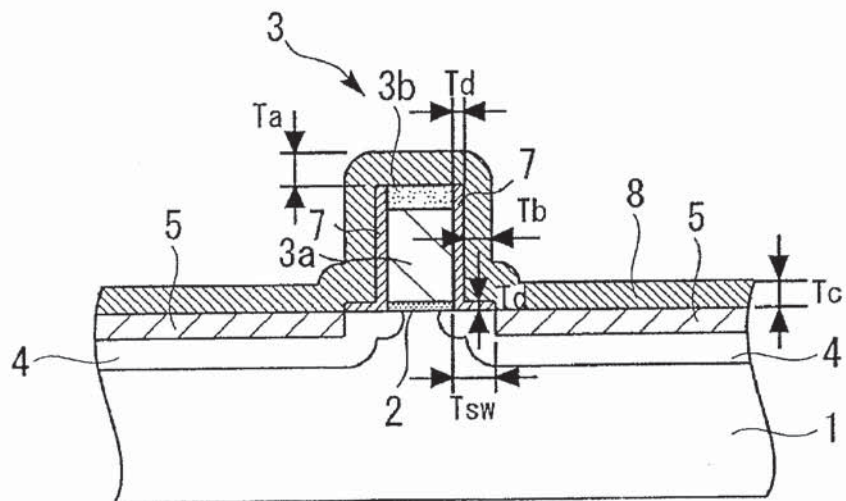


Fig. 3

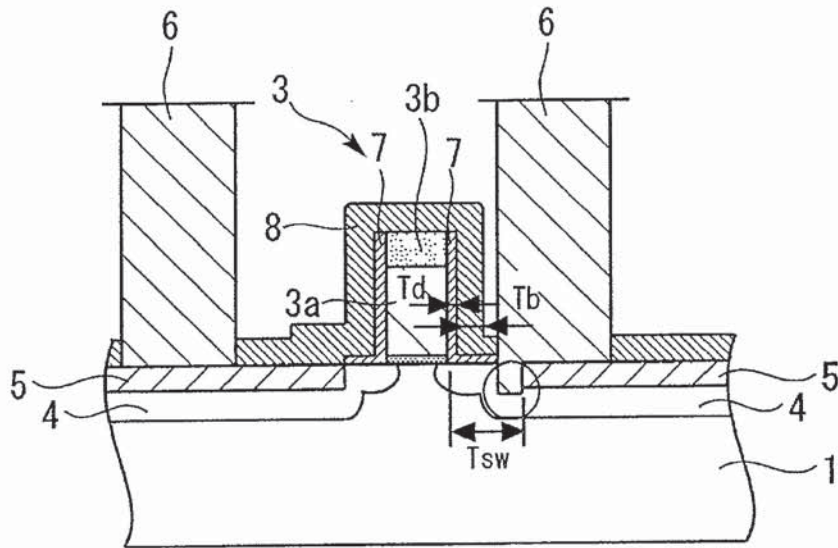
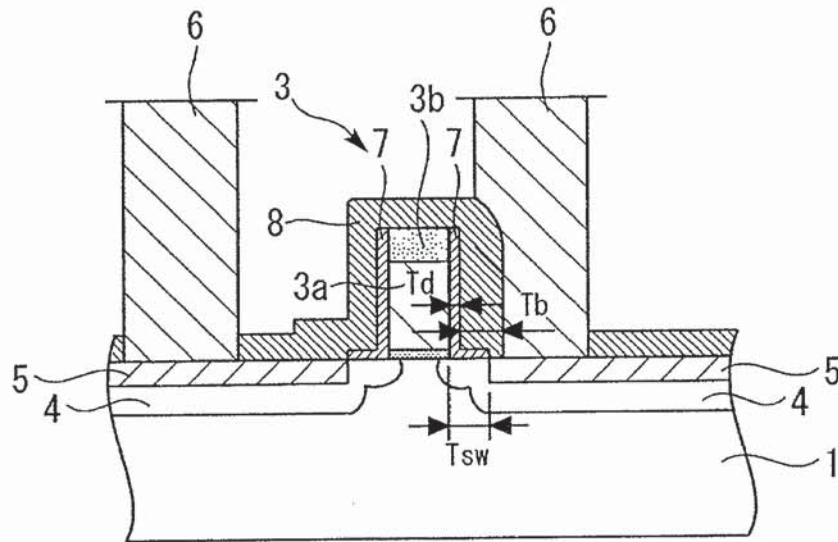


Fig. 4



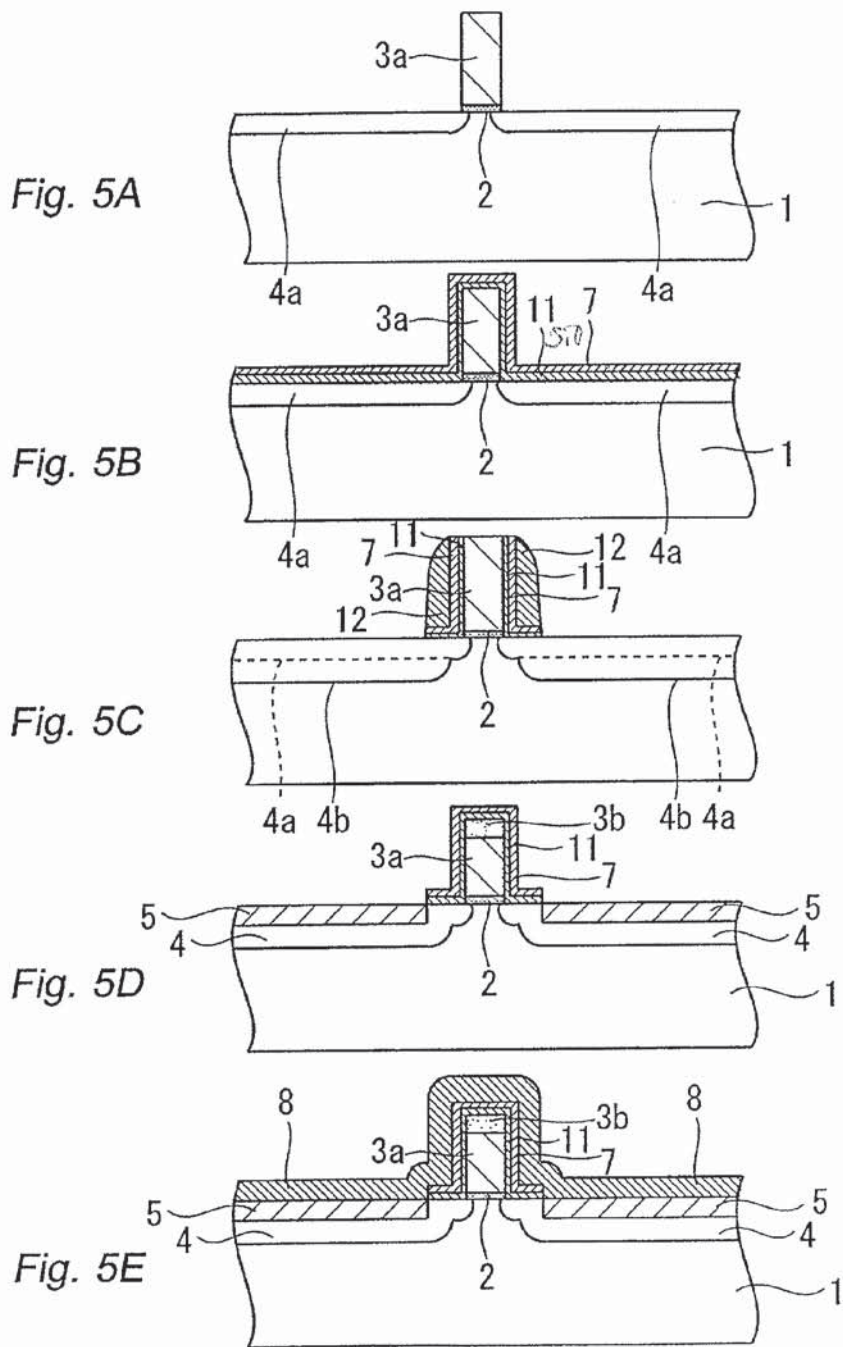


Fig. 6

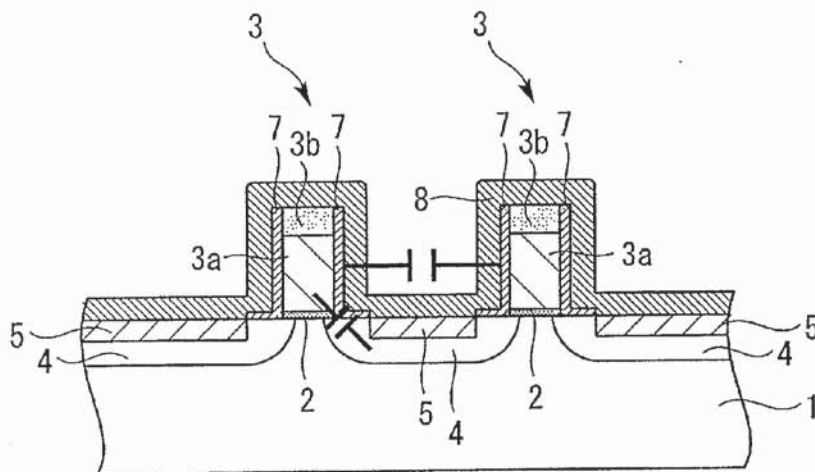
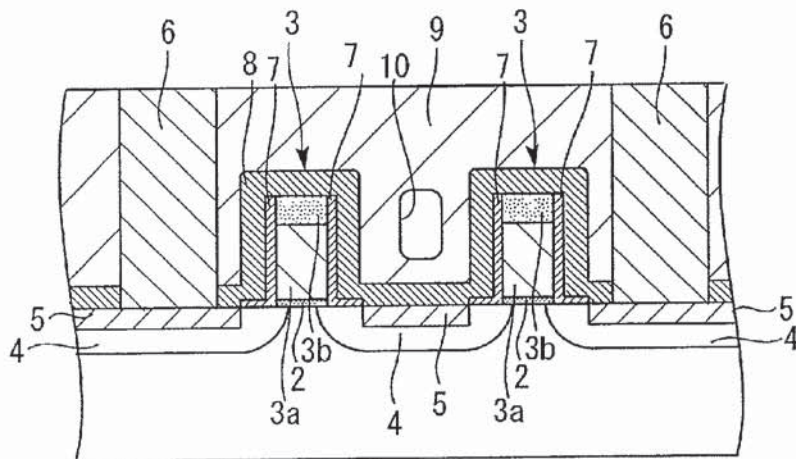


Fig. 7



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