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(54) DEVICE AND METHOD FOR TUNING THRESHOLD VOLTAGE BY IMPLEMENTING DIFFERENT WORK **FUNCTION METALS IN DIFFERENT** SEGMENTS OF A GATE

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(57)**ABSTRACT**

A semiconductor device includes an active region spanning along a first direction. The semiconductor device includes a first elongated gate spanning along a second direction substantially perpendicular to the first direction. The first elongated gate includes a first portion that is disposed over the active region and a second portion that is not disposed over the active region. The first portion and the second portion include different materials. The semiconductor device includes a second elongated gate spanning along the second direction and separated from the first elongated gate in the first direction. The second elongated gate includes a third portion that is disposed over the active region and a fourth portion that is not disposed over the active region. The third portion and the fourth portion include different materials.

