

MEMORY DEVICE AND MANUFACTURING METHOD THEREFOR

ABSTRACT

Provided are a memory device and a manufacturing method therefore, and relate to the technical field of semiconductors, to resolve the technical problem that a Word Line (WL) is not easy to manufacture. The manufacturing method includes: forming a film-stack structure on the substrate, where the film-stack structure includes sacrificial layers and active layers that are alternately stacked in a first direction; removing part of the film-stack structure located in a first area, and forming a plurality of first grooves that are spaced apart from each other and extend in a second direction, where the substrate is exposed from the first grooves to divide the active layers located in the first area into a plurality of active pillars that are spaced apart from each other; removing the sacrificial layers located in the first area and the second area; removing part of the active layers located in the second area, to form a plurality of step-shaped connection layers on an end of the second area away from the first area; and forming gate material layers to cover the connection layers and the active pillars. The gate material layers act as the WLs. By disposing the connection layers, it is convenient to manufacture the WLs and lead out the WLs.

[Fig. 2]