

THREE-DIMENSIONAL MEMORY AND FABRICATION METHOD THEREOF, MEMORY SYSTEM AND ELECTRONIC APPARATUS

ABSTRACT

The present disclosure provides a three-dimensional memory and a fabrication method thereof, a memory system and an electronic apparatus. The three-dimensional memory includes a stack structure, a plurality of first stops disposed in the first direction X, a protection layer and a plurality of contact posts. The stack structure includes a step structure including a plurality of staircase structures disposed in the first direction and having different heights in a second direction. A plurality of first stops are located on the plurality of steps of at least one staircase structure. The protection layer covers the step structure and the first stops and at least a part of the protection layer is located between the first stop and the step adjacent to the first stop. The contact post extends through the protection layer and the first stop and is connected with gate layer in the step corresponding to the first stop.

Fig. 8