

ABSTRACT

An AGV comb-type transfer robot, comprising: a lifting frame (2), comb teeth being mounted on the lifting frame (2); and a traveling frame (1), a comb tooth lifting apparatus (15) being mounted on the traveling frame (1), and a traveling drive mechanism (13) and a central control system being mounted in the traveling frame (1). The comb tooth lifting apparatus (15) comprises a lifting drive motor (151) and a gear set (152) in transmission connection with the motor (151). The traveling drive mechanism (13) comprises a traveling drive motor and a traveling wheel set mounted in the traveling frame (1). The present invention also relates to a method for storing and retrieving a vehicle using the robot. The transfer efficiency and intelligent level of the robot are high.