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(57) **ABSTRACT**

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A motor and a vehicle. The motor includes a stator iron core and a flat wire winding structure. Each stator slot has n layers of the flat wire winding structure. Each phase of the flat wire winding structure includes a first part and a second part, the first part occupies a layers in the stator slot, and the second part occupies b layers in the stator slot, and $a \neq b$. In addition, in each pole of each phase of the flat wire winding structure, a stator slot wound with the first part and a stator slot wound with the second part are staggered by y1 slots. The pitch y is less than a pole pitch y0. In this way, the flat wire winding structure is a short-pitch winding, and further, when the motor runs, good torque fluctuation suppression effect is achieved.

