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**WAKITA**(10) **Pub. No.: US 2022/0352791 A1**(43) **Pub. Date: Nov. 3, 2022**(54) **BRUSH MOTOR**(71) Applicant: **MABUCHI MOTOR CO., LTD.**,  
Chiba (JP)(72) Inventor: **Tadayuki WAKITA**, Chiba (JP)(21) Appl. No.: **17/730,193**(22) Filed: **Apr. 27, 2022**(30) **Foreign Application Priority Data**

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(2013.01); **H02K 3/48** (2013.01)(57) **ABSTRACT**

A brush motor includes: a rotor core provided in a rotor; s teeth provided in the rotor core; s concentrated-winding coils with electric wires being respectively wound around the teeth; a commutator provided on the rotor in a relatively non-rotatable manner; c commutator pieces provided in the commutator and connected to the coils; p pairs of magnet magnetic poles provided on a stator and arranged to face the teeth; and a brush that is brought into sliding contact with the commutator pieces to supply a current to the coils, in which  $0.5 < p/s < 1$  and  $s < c$ .

