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Kurniawan(10) **Pub. No.: US 2022/0368185 A1**(43) **Pub. Date: Nov. 17, 2022**(54) **AN HVAC BLOWER MOTOR**(71) Applicant: **Valeo Climate Control Corporation**,
Auburn Hills, MI (US)(72) Inventor: **Darius Kurniawan**, Auburn Hills, MI
(US)(73) Assignee: **Valeo Climate Control Corporation**,
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ABSTRACT

An HVAC blower motor (10) includes a stator (12) and a rotor (14). The stator (12) include electro-magnets (12a) energized at pre-determined energizing frequency. The rotor (14) angularly moves relative to the stator (12) due to pulsating magnetic field between the stator (12) and the rotor (14). The rotor (14) includes an output shaft (24), a magnet holder (14a) and a plurality of permanent magnets (20). The permanent magnets (20) are configured to interact with the cyclically energized electro-magnets (12a) to cause pulsating magnetic field between the stator (12) and the rotor (14) to cause angular movement of the rotor (14) relative to the stator (12). The magnet holder (14a) includes a strip (15) of vibration damping material secured thereto along an outer periphery thereof to change the natural frequency characteristic of the wall portion 14c is subjected to.

