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HWANG et al.(10) **Pub. No.: US 2024/0178717 A1**(43) **Pub. Date: May 30, 2024**(54) **FAN MOTOR**(71) Applicant: **LG Electronics Inc.**, Seoul (KR)(72) Inventors: **Eunji HWANG**, Seoul (KR); **Byungjik KIM**, Seoul (KR); **Sunggi KIM**, Seoul (KR); **Jisu HWANG**, Seoul (KR)(21) Appl. No.: **18/488,445**(22) Filed: **Oct. 17, 2023**(30) **Foreign Application Priority Data**

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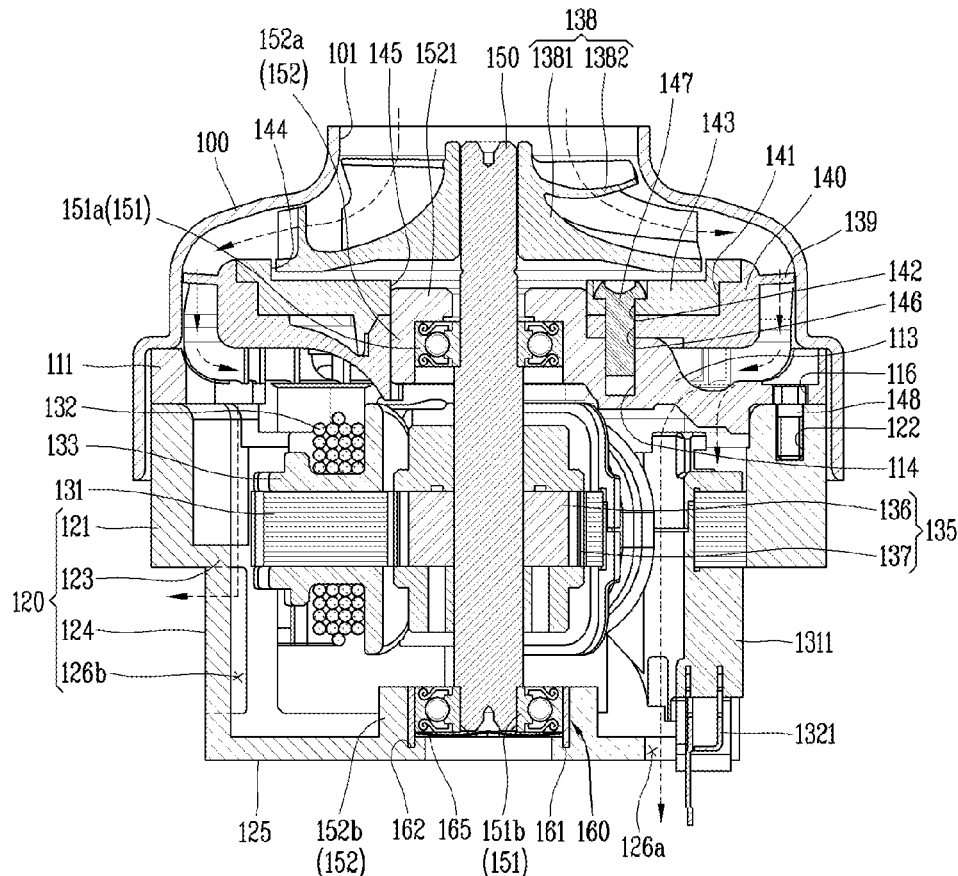
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ABSTRACT

A fan motor is disclosed. The fan motor includes a rotating shaft, a motor, a bearing, a bearing housing, a preload applying device, and a bush. The preload applying device is disposed between one axial end of the bearing and the bearing housing, and applies force to the one axial end of the bearing in an axial direction by using elastic force. The bush is coupled to an outer circumferential surface of the bearing and slidably mounted on an inner circumferential surface of the bearing housing in an axial direction. A protrusion is formed on one axial end portion of the bush, and a protrusion accommodating groove is formed on an axial inner surface of the bearing housing. Accordingly, the preload applying device can continuously apply an appropriate preload to the bearing, while the bush can suppress slipping of an outer ring of the bearing.



----- : AIR FLOW DIRECTION