



US 20230231455A1

(19) **United States**(12) **Patent Application Publication** (10) **Pub. No.: US 2023/0231455 A1**
(43) **Pub. Date: Jul. 20, 2023**(54) **ELECTRIC AXIAL FLOW MACHINE AND
DISPLACEMENT DEVICE FOR AN
ELECTRIC AXIAL FLOW MACHINE**(30) **Foreign Application Priority Data**

Jun. 4, 2020 (DE) 10 2020 114 857.7

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KG**, Herzogenaurach (DE)**Publication Classification**(51) **Int. Cl.**
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CPC **H02K 21/026** (2013.01)(73) Assignee: **Schaeffler Technologies AG & Co.
KG**, Herzogenaurach (DE)(57) **ABSTRACT**

An electric axial flow machine having a stator, a first rotor body arranged on a rotor shaft, a second rotor body arranged on the rotor shaft, and a displacement device arranged between the two rotor bodies and coupled thereto. The displacement device includes at least one spring device which acts on the first rotor body and the second rotor body against the magnetic attractive force between the rotor body and the stator. The spring device is configured such that a spring force characteristic is formed which runs above the magnetic force characteristic over the entire displacement path.

(21) Appl. No.: **18/007,881**(22) PCT Filed: **May 3, 2021**(86) PCT No.: **PCT/DE2021/100395**

§ 371 (c)(1),

(2) Date: **Dec. 2, 2022**