



US 20240213847A1

(19) **United States**

(12) **Patent Application Publication**  
**SHINBA et al.**

(10) **Pub. No.: US 2024/0213847 A1**

(43) **Pub. Date: Jun. 27, 2024**

(54) **SUBSTRATE HAVING AT LEAST TWO HOLES FOR INSERTING FIRST TERMINAL OF PAIR OF TERMINALS OF MOTOR**

**Publication Classification**

(51) **Int. Cl.**  
**H02K 5/22** (2006.01)  
(52) **U.S. Cl.**  
**CPC** ..... **H02K 5/225** (2013.01)

(71) Applicant: **KYOCERA Document Solutions Inc.,**  
Osaka (JP)

(72) Inventors: **Minoru SHINBA**, Osaka (JP);  
**Masanori KYOGOKU**, Osaka (JP)

(73) Assignee: **KYOCERA Document Solutions Inc.,**  
Osaka (JP)

(21) Appl. No.: **18/545,023**

(22) Filed: **Dec. 19, 2023**

(30) **Foreign Application Priority Data**

Dec. 27, 2022 (JP) ..... 2022-209599

(57) **ABSTRACT**

A substrate includes a first fixing section and a second fixing section. On the first fixing section, a first terminal of a pair of plate-shaped terminals protruding from a motor is fixed. On the second fixing section, a second terminal of the pair of terminals is fixed. The first fixing section includes a first hole and a second hole. The first hole extends in a second direction, intersecting a first direction extending from the first terminal toward the second terminal. The second hole extends in the second direction, and is located adjacent to the first hole, on an opposite side of the second terminal with respect to the first hole, in the first direction. The first terminal is inserted through one of the first hole and the second hole.

