



US 20240213829A1

(19) **United States**

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

(10) **Pub. No.: US 2024/0213829 A1**

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

(54) **STATOR LAMINATION, STATOR
STRUCTURE, MOTOR STRUCTURE, AND
LAUNDRY TREATMENT APPARATUS**

(30) **Foreign Application Priority Data**

Sep. 17, 2021 (CN) 202111094105.4

Sep. 17, 2021 (CN) 202122262610.7

(71) Applicants: **FOSHAN WELLING WASHER
MOTOR MANUFACTURING CO.,
LTD.**, Foshan (CN); **MIDEA
WELLING MOTOR
TECHNOLOGY (SHANGHAI) CO.,
LTD.**, Shanghai (CN)

Publication Classification

(51) **Int. Cl.**

H02K 1/16 (2006.01)

H02K 1/276 (2022.01)

H02K 21/14 (2006.01)

(52) **U.S. Cl.**

CPC **H02K 1/165** (2013.01); **H02K 1/2773**
(2013.01); **H02K 21/14** (2013.01)

(72) Inventors: **Yuehong WU**, Foshan (CN); **Wenrui
LI**, Foshan (CN); **Yunfeng CHENG**,
Foshan (CN)

(73) Assignees: **FOSHAN WELLING WASHER
MOTOR MANUFACTURING CO.,
LTD.**, Foshan (CN); **MIDEA
WELLING MOTOR
TECHNOLOGY (SHANGHAI) CO.,
LTD.**, Shanghai (CN)

(57) **ABSTRACT**

A stator lamination, a stator structure, a motor structure, and a laundry treatment apparatus are provided. The stator lamination includes a stator yoke and multiple stator teeth arranged on the stator yoke, and tooth shoes arranged on the ends of the stator teeth distant from the stator yoke. The stator teeth are circumferentially distributed around the axis of the stator lamination. A winding groove is formed between two adjacent stator teeth. A first notch and a second notch, arranged in the radial direction of the stator teeth, are formed between two adjacent tooth shoes. The notch width of the first notch is different from that of the second notch.

(21) Appl. No.: **18/601,262**

(22) Filed: **Mar. 11, 2024**

Related U.S. Application Data

(63) Continuation of application No. PCT/CN2022/
078884, filed on Mar. 2, 2022.

