

# (19) United States

## (12) Patent Application Publication (10) Pub. No.: US 2024/0213827 A1 HONDA et al.

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

### (54) LAMINATED CORE AND METHOD FOR MANUFACTURING LAMINATED CORE

(71) Applicant: Nidec Corporation, Kyoto (JP)

(72) Inventors: Takeshi HONDA, Kyoto (JP); Hitoshi KATSURADA, Kyoto (JP); Yoshito NAGANO, Kyoto (JP)

(21) Appl. No.: 18/390,427 Filed: (22)Dec. 20, 2023

(30)Foreign Application Priority Data

Dec. 27, 2022 (JP) ...... 2022-210405

### **Publication Classification**

(51) Int. Cl. H02K 1/16 (2006.01)H02K 15/02 (2006.01)

(52) U.S. Cl. CPC ...... H02K 1/16 (2013.01); H02K 15/024 (2013.01)

#### (57)ABSTRACT

A laminated core is tubular and includes a back yoke portion and tooth portions. The back yoke portion includes a cut line between the tooth portions adjacent to each other in a circumferential direction, the cut line extending in a radial direction from an inner peripheral surface. When one of back yoke portions adjacent to each other in a stacking direction is referred to as a first back yoke portion and the other is referred to as a second back yoke portion, at least a portion of the cut line in the first back yoke portion does not overlap the cut line in the second back yoke portion when the back yoke portion is viewed from the stacking direction. The first back yoke portion is at least partially bonded to the second back yoke portion.

