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ABSTRACT

Coils 1 - 3 of each phase are arranged symmetrically with regard to a rotary shaft of disc-shaped rotor 8, and form a pair of coils electrically coupled with each other. A manufacturing apparatus for a stator including these coils
5 of a brushless motor is utilized for manufacturing the following stator: a number of coils in each phase is S/N pieces (N is an integer equal to or more than 2, and S/N is an integer), every component making up the stator including the coils are arranged in an area spanning $360/N$ degree with regard to the rotary shaft of disc-shaped rotor 8. The apparatus can
10 manufacture N pieces of this stator simultaneously. As a result, the brushless motor and the manufacturing method can reduce a number of coils to $1/N$ as well as increase the productivity to N times.