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(57) **ABSTRACT**

A rotor includes: a shaft having a tubular shape; and a rotor core including a through hole into which the shaft is inserted and that has a regular polygonal shape. The shaft is fixed to the rotor core by hydroforming. Of an outer peripheral surface of the shaft, a core contact part that is in contact with the through hole of the rotor core that has the regular polygonal shape has a shape extending along the regular polygonal shape.

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