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(54) Benævnelse: **Slip ring assembly with shaft holder**

(57) Sammendrag:

The present invention relates to a slip ring assembly 1 for providing electricity to a rotor which is able to rotate in relation to a stator in a generator or an electrical motor, the slip ring assembly being in connection with an encoder 4. The slip ring assembly 1 comprises a slip ring unit 2 having at least one first slip ring 3, and an encoder shaft holder 6 connected to the slip ring unit and in which holder an encoder shaft 5 is situated. The encoder shaft holder 6 is made from an electrically insulating material for providing an electrical insulation between the slip ring unit 2 and the encoder 4.

fortsættes

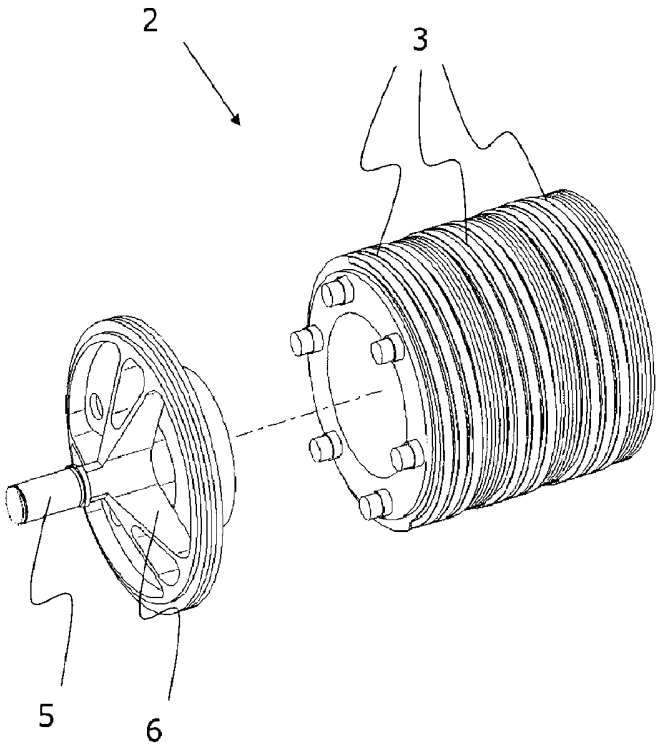

Fig. 3

Claims

1. Slip ring assembly for providing electricity to or from a rotor rotating in relation to a stator in a generator or an electrical motor, the slip ring assembly being connected with an encoder and comprising:
- a slip ring unit having at least one first slip ring, and
- an encoder shaft holder connected with the slip ring unit and in which holder a encoder shaft is situated,
wherein the encoder shaft holder is made from an electrically insulating material.

2. Slip ring assembly as claimed in claim 1, wherein the encoder shaft holder is moulded.

3. Slip ring assembly as claimed in claim 2, wherein the electrically insulating material is some kind of plastic, ceramics, fibreglass, or a combination thereof.

4. Slip ring assembly as claimed in any of the preceding claims, wherein the encoder shaft holder is glued onto the slip ring unit.

5. Slip ring assembly as claimed in any of the preceding claims, wherein the encoder shaft holder has a projecting part in which the encoder shaft is fastened.

6. Slip ring assembly as claimed in any of the preceding claims, wherein the encoder shaft holder has a part having approximately the same circumference as the slip ring unit.

7. Slip ring assembly as claimed in any of the preceding claims, wherein the encoder shaft holder and the slip ring unit are moulded together as one.

8. Generator comprising a slip ring assembly as claimed in any of the preceding claims.

9. Wind turbine comprising a slip ring assembly as claimed in any of claims 1-7.

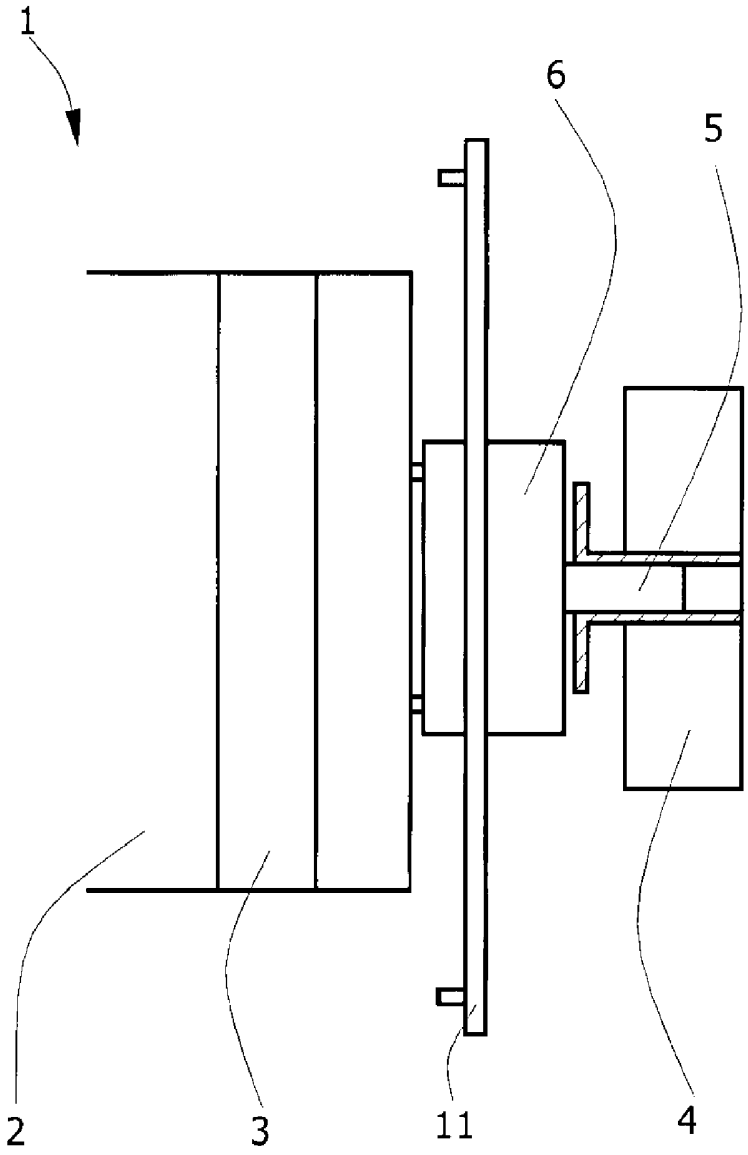

Fig. 1

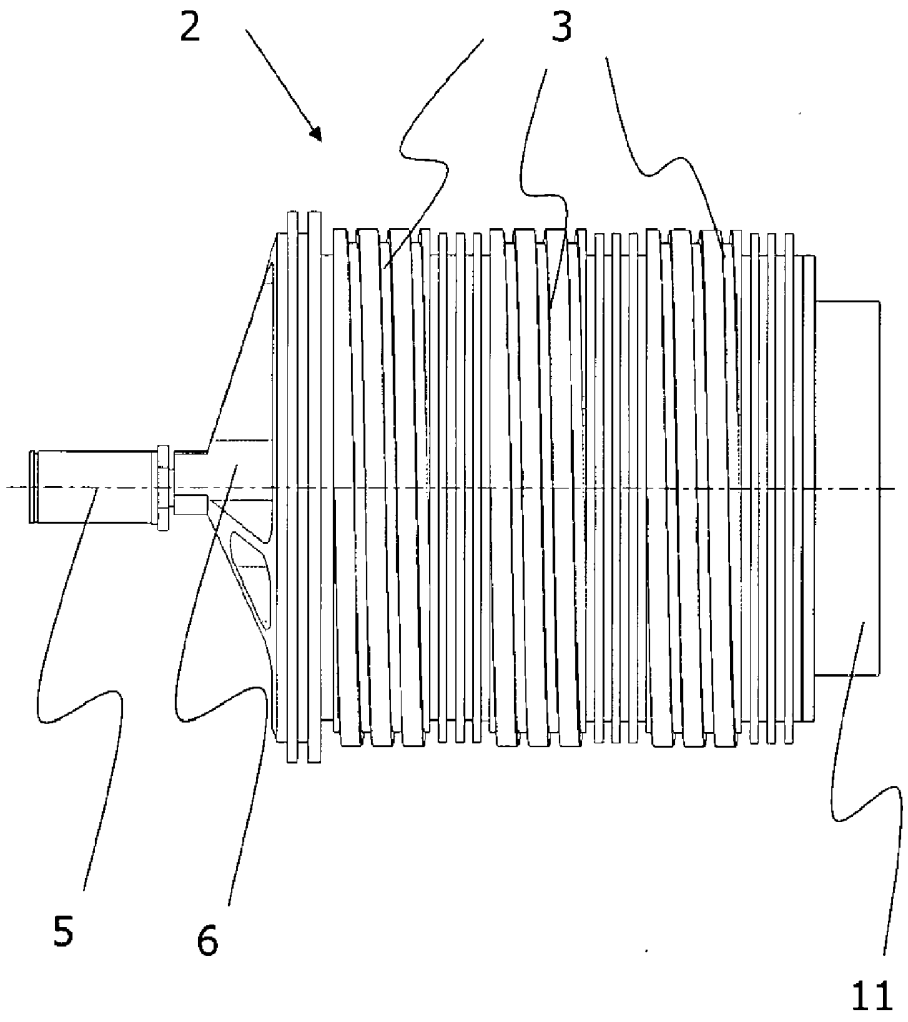

Fig. 2

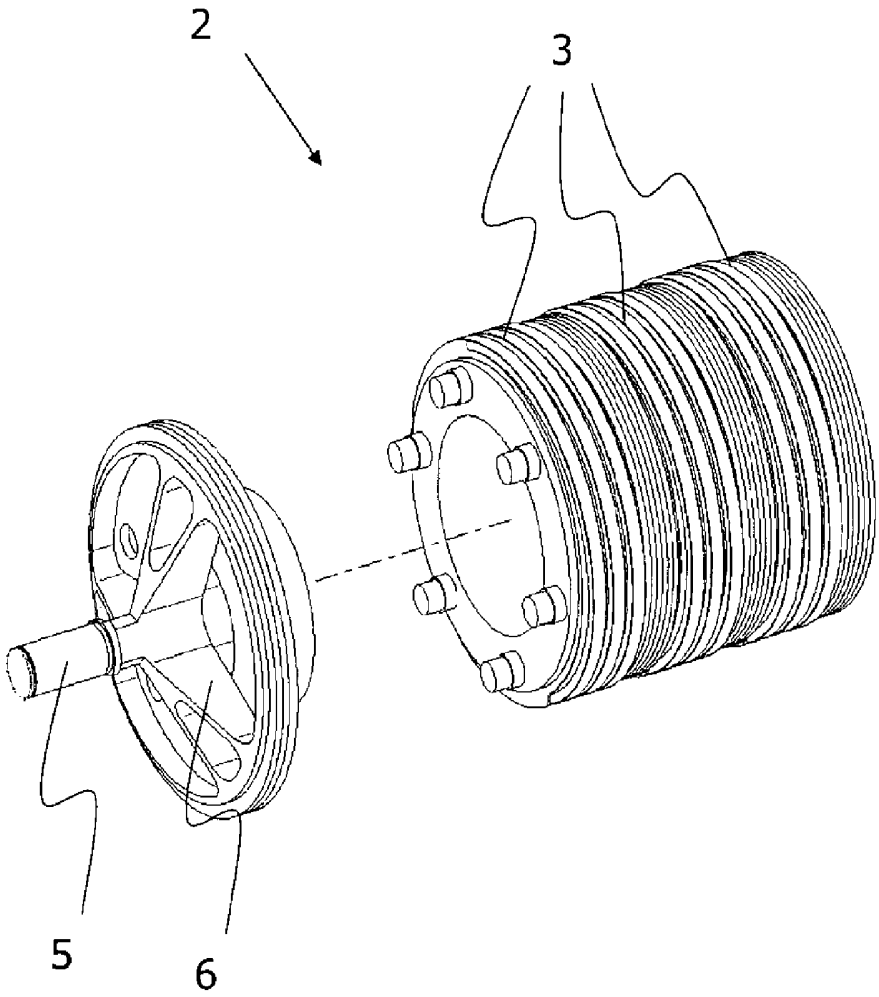

Fig. 3

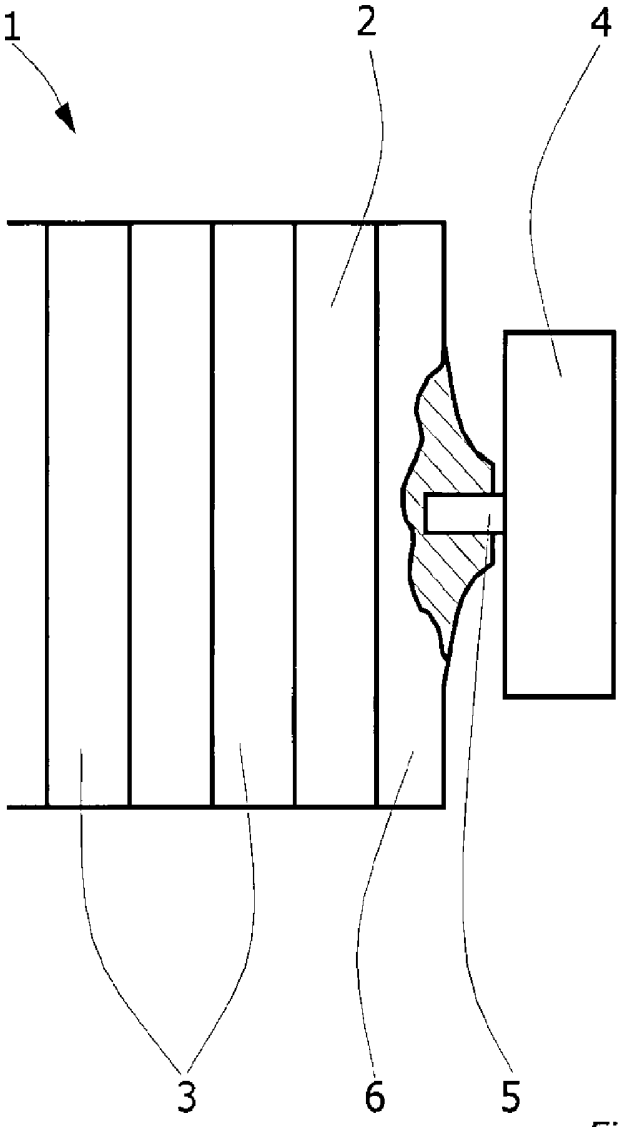

Fig. 4

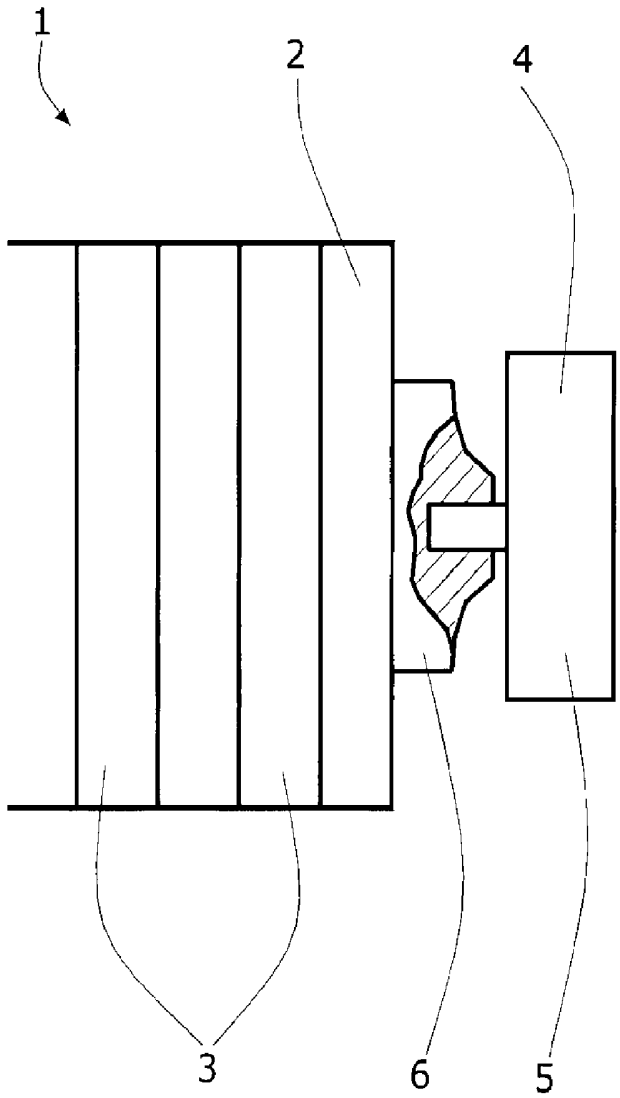

Fig. 5

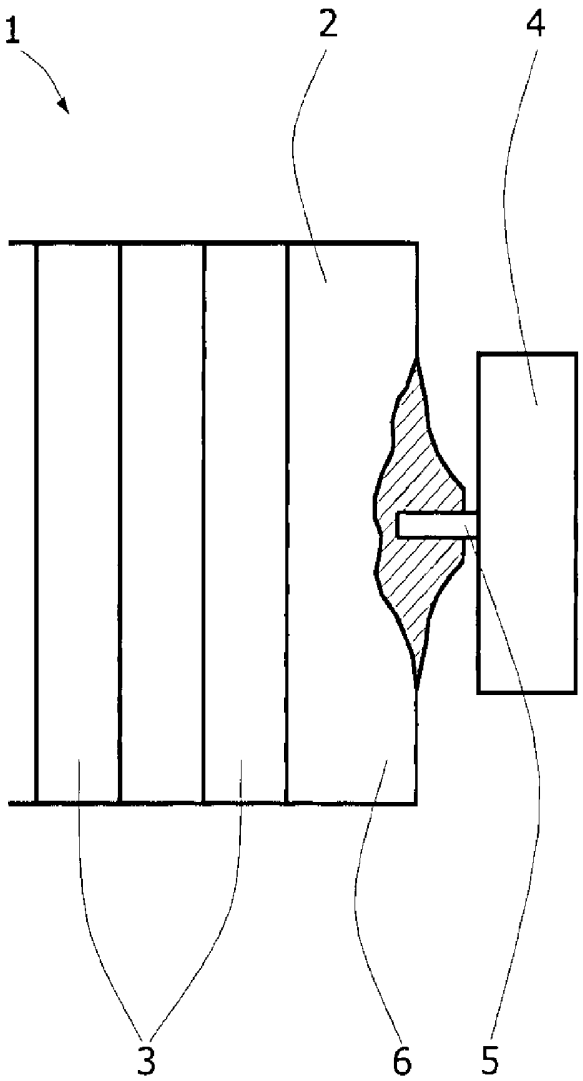

Fig. 6