

Title (en)
HOLLOW MAGNETIC BODY FOR DETECTING THE ROTATION OF A SHAFT

Title (de)
HOHLER MAGNETKÖRPER ZUM ERFASSEN EINER DREHUNG EINER WELLE

Title (fr)
CORPS MAGNETIQUE CREUX POUR DETECTER LA ROTATION D'UN ARBRE

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Application
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Abstract (en)
[origin: DE19823640A1] The hollow magnetic body comprising shafts for detecting the rotation of shafts are known in prior art. Said magnetic bodies have a rotationally symmetrical configuration and are permanently magnetized so that they may have at least one north pole and a south pole for generating signal tensions in the sensors, for instance Hall sensors. According to the invention, a hollow magnetic body (2a) is combined with an annular auxiliary body (9a) and produced as a composite component in an injection molding process. The inner diameter of the annular auxiliary body (9a) is larger than the diameter of the allocated shaft (3) so that a tubular section (10) extends from the material of the hollow magnetic body (2a) between said shaft (3) and the annular auxiliary body (9a) with the purpose of forming a press fit. The annular metal auxiliary body (9a) provides most of the compressive forces required to counteract the risk of cracking of the hollow magnetic body (2a).

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