

Title (en)  
SCREW PUMP

Title (de)  
SCHRAUBENSPINDELPUMPE

Title (fr)  
POMPE À BROCHES À VIS

Publication  
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Application  
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Abstract (en)  
[origin: WO2022156949A1] The invention relates to a screw pump comprising a pump housing in which a pump spindle is rotatably mounted with the involvement of a hydrostatic thrust bearing for absorbing the axial thrust which is produced at the spindle during operation, the hydrostatic thrust bearing being formed by a housing-fixed bearing surface, against which an end-face, spindle-fixed bearing surface of the pump spindle is indirectly supported, by virtue of the fact that the housing-fixed bearing surface and the spindle-fixed bearing surface form a bearing gap therebetween, which bearing gap is fed, in its central region, with a pressure fluid which flows out through the bearing gap in the radial direction, preferably into the intake region, and the hydrostatic pressure of which counteracts the axial thrust.

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