

Title (en)

CONVEYING DEVICE AT LEAST FOR CONVEYING A FLUID, AND PUMP HAVING SUCH A CONVEYING DEVICE

Title (de)

FÖRDERVORRICHTUNG ZUMINDEST ZU EINEM FÖRDERN EINES FLUIDS UND PUMPE MIT EINER DERARTIGEN FÖRDERVORRICHTUNG

Title (fr)

DISPOSITIF DE TRANSPORT AU MOINS POUR TRANSPORTER UN FLUIDE ET POMPE ÉQUIPÉE D'UN TEL DISPOSITIF DE TRANSPORT

Publication

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Application

**EP 20800030 A 20201022**

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Abstract (en)

[origin: CA3158198A1] The invention relates to a conveying device at least for conveying a fluid, having at least one conveying chamber (18), at least one conveying chamber element (20) that at least partially delimits the conveying chamber (18) and is designed in a dimensionally stable manner, at least one elastically deformable, more particularly annular, conveying element (22), more particularly a conveying membrane, which together with the conveying chamber element (20) delimits the conveying chamber (18) and is arranged on the conveying chamber element (20), and at least one pressing unit (96) which, more particularly at least in a non-conveying state of the conveying element (22), is provided to generate a non-homogeneous pressing force at least in a sealing region (102) between the conveying element (22) and the conveying chamber element (20) along a maximum total extent of the sealing region (102), more particularly along a maximum circumferential extent between the conveying element (22) and the conveying chamber element (20). According to the invention, the pressing unit (96) is designed such that more particularly at least in a non-conveying state of the conveying element (22), the conveying element (22) has a non-homogeneous compression along the maximum total extent of the sealing region (102), more particularly along a maximum circumferential extent of the annular conveying element (22), wherein the conveying element (22) is compressed to different degrees by the pressing unit (96), more particularly as a result of a geometric design of a pressing surface (104) of a pressing element (98, 100) of the pressing unit (96), along the maximum total extent of the sealing region (102), more particularly along the maximum circumferential extent of the annual conveying element (22).

IPC 8 full level

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