

Title (en)

MEMBRANE PUMP AND METHOD FOR ADJUSTING SAME

Title (de)

MEMBRANPUMPE SOWIE VERFAHREN ZUM EINSTELLEN EINER SOLCHEN

Title (fr)

POMPE À MEMBRANE ET PROCÉDÉ POUR AJUSTER UNE TELLE POMPE

Publication

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Application

**EP 11745538 A 20110815**

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Abstract (en)

[origin: CA2808373A1] The invention relates to a membrane pump having a delivery chamber, a pressure connection, and a suction connection, wherein the pressure and suction connections are connected to the delivery chamber, a hydraulic chamber, wherein the delivery chamber and the hydraulic chamber are separated from each other by means of a membrane, wherein a pulsing working fluid pressure can be applied to the hydraulic chamber that can be filled with a working fluid, whereby the membrane is displaced between a first position in which the delivery chamber comprises a lesser volume and a second position in which the delivery chamber comprises a greater volume, wherein the hydraulic chamber is connected to a working fluid reservoir by means of a leak extension valve, wherein the membrane is a spring element having a first spring constant designed such that a first predetermined force acts on the membrane in the direction of the second position. In order to provide a membrane pump and a method for adjusting same, by which the indicated problems are reduced or even completely eliminated, the invention proposes that the spring element can be interchanged by a different spring element designed such that said element exerts a second predetermined force on the membrane in the direction of the second position, or that the force exerted by the spring element on the membrane in the direction of the second position can be adjusted.

IPC 8 full level

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