Title (en)
VACUUM DIAPHRAGM PUMP UNIT

Title (de)
MEMBRANSAUGPUMPENAGGREGAT

Title (fr)
ENSEMBLE POMPE ASPIRANTE À MEMBRANE

Publication
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Application
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Abstract (en)
[origin: WO2008110022A2] A vacuum diaphragm pump unit comprises a dimensionally stable diaphragm base (1), a dimensionally stable one-piece diaphragm cover (3) having a bottom area and a side wall (36) that extends around the bottom area and widens towards the exterior, and a one-piece pump diaphragm (2) which has a diaphragm plate (20), a flexible diaphragm piston (21), at least one inlet valve flap (23) and at least one outlet valve flap (24). The diaphragm plate (20) is interposed between the diaphragm base (1) and the diaphragm cover (3). The pump diaphragm (2) and the diaphragm cover (3) are interconnected in a predetermined position with respect to each other via connecting elements (15, 15', 15"). The diaphragm piston (21) extends through the diaphragm base (1) and the diaphragm piston (21) covers a pump chamber (31) of the diaphragm cover (3). The invention is characterized in that more than three connecting elements (15, 15', 15") are present and are integrally bonded and/or form-locked.

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Cited by
US10299964B2; US10702418B2; US10143783B2; US11253639B2; US11648342B2; US9642955B2; US10130526B2; US11141325B2

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