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Application
EP 06798379 A 20060927

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Abstract (en)
[origin: EP1930592A1] The present invention provides a diaphragm-type pump for feeding a low-viscosity fluid such as air under high pressure while miniaturizing the size of a feeding means. In the pump connected with a feeding pipe and a delivery pipe for delivering a fluid fed from the feeding pipe through the delivery pipe, the pump includes a housing provided with a storage chamber connecting with the feeding pipe and the delivery pipe through a one-way valve respectively and storing the fluid therein temporarily, a vibration plate arranged to face the storage chamber in an opposed manner and driven in a reciprocating manner so as to push out the fluid to the delivery pipe after sucking the fluid from the feeding pipe into the storage chamber, and a drive part for driving the vibration plate in a reciprocating manner. A ring-shaped tube is arranged along an outer periphery of the vibration plate, and the vibration plate is mounted on the housing by way of the tube thus enabling driving of the vibration plate in a reciprocating manner while elastically deforming the tube.

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Citation (search report)
• [XY] GB 176067 A 19220216 - WILLIAM JOSEPH RUSDELL
• [XY] US 5438913 A 19950808 - BUDDE DIRK DIPL ING [DE]
• [XY] FR 1064799 A 19540518 - BATAAFSCHE PETROLEUM
• [Y] FR 1435903 A 19660422 - SELWOOD LTD WILLIAM R
• See references of WO 2007037271A1

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DE GB

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