

Title (en)
MULTIPLE MEMBRANE PUMP

Title (de)
MEHRFACHMEMBRANPUMPE

Title (fr)
POMPE À MEMBRANES MULTIPLES

Publication
EP 4050213 C0 20230607 (DE)

Application
EP 22152137 A 20220119

Priority
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Abstract (en)
[origin: US2022268267A1] Multiple diaphragm pumps are known in the art that are operated by compressed air and in which the valves are controlled by a slide element. The slide element is magnetically actuated without mechanical engagement involved in the actuation. This has the consequence that only a small amount of force can be applied which may not be sufficient due to static friction of the valve seal. The invention presents a hybrid solution which facilitates a mechanical actuation of a valve piston provided for valve control as well as a magnetic overcoming of a dead center that may be reached by the valve piston and the diaphragm piston that actuates the diaphragms of the multiple diaphragm pump.

IPC 8 full level
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CPC (source: CN EP US)
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