

Title (en)
COMPRESSION OR EXPANSION DEVICE

Title (de)
KOMPRESSIONS- ODER EXPANSIONSVORRICHTUNG

Title (fr)
DISPOSITIF DE COMPRESSION OU DE DILATATION

Publication
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Application
EP 00901870 A 20000127

Priority
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• IL 12828999 A 19990129

Abstract (en)
[origin: WO0045053A1] A compressor or expansion device (1) for use with compressive fluid and comprising a flexible hose (8) connected between a pair of ports (5A, 5B) and against which a pair of spaced apart, adjacent contact elements bear whereby a portion of the hose is substantially occluded at both ends entrapping a quantity of compressive fluid therewithin. The pair of spaced apart, adjacent contact elements are displaced along the hose from an inlet port (5A) of the pair of ports to an outlet port (5B) thereof so as to provide a flow of compressive fluid therebetween. The hose tapers between the pair of ports such that the quantity of compressive fluid is respectively entrapped in a first volume V1 proximal the inlet port and a second volume V2 proximal the outlet port whereby a ratio of pressures P1/P2 at the pair of ports is proportional to a ratio of the volumes V2/V1 in accordance with general equation (I), where k is the adiabatic power for the compressive fluid.

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F04B 45/08; **F25B 9/00**; **F04B 35/00**

IPC 8 full level
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