

Title (en)
VACUUM PUMP

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EP 0391182 A3 19910116 (DE)

Application
EP 90105628 A 19900324

Priority
DE 3911314 A 19890407

Abstract (en)
[origin: EP0391182A2] The invention relates to a vacuum pump with a housing (1), with an expansion chamber (3) formed in the housing, with a minimum of one piston (4, 21, 22, 27, 35, 36) rotating in the expansion chamber, and with a shaft (15, 23, 24, 33, 37, 38) passing through the piston, housing and/or piston being manufactured using plastics in such a way that the housing, at least in the area of its peripheral expansion chamber inner wall, and/or the piston, at least in the area of its peripheral surface, are composed of plastic; in order to avoid elongations of the pistons owing to centrifugal forces and/or deformations of the housing walls owing to pressure differences, it is proposed that the plastic be provided with a reinforcement (2, 16, 17, 20, 25, 28, 29, 39, 41). <IMAGE>

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F04C 25/02

IPC 8 full level
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CPC (source: EP)
F01C 21/08 (2013.01); **F01C 21/106** (2013.01); **F04C 18/084** (2013.01)

Citation (search report)
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• [X] DE 2002518 A1 19710729 - VOGELANG HUGO FA [DE]
• [AD] DE 3321718 A1 19841220 - PFEIFFER VAKUUMTECHNIK [DE]
• [X] PATENT ABSTRACTS OF JAPAN, unexamined applications, M Sektion, Band 8, Nr. 37, Februar 17, 1984, THE PATENT OFFICE JAPANESE GOVERNMENT, Seite 28 (M-277); & JP-A-58 192 991 (NIPPON DENSO)
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