

Title (en)

Valve operated discharge control of a household pump

Title (de)

Ventilgesteuerte Durchflussregelung einer Haushaltspumpe

Title (fr)

Régulation du débit d'une pompe ménagère avec une soupape

Publication

EP 0992687 A3 20010131 (DE)

Application

EP 99119758 A 19991006

Priority

- DE 19846047 A 19981007
- DE 19923357 A 19990521

Abstract (en)

[origin: EP0992687A2] The unit has a pump with pump chamber and a back pressure valve (26) located downstream of the pump chamber outlet. The valve has a housing (40) with removable valve insert (49). The housing has a valve intake (42) and a valve outlet (43), which are formed like connection sockets of a pipe connection. The valve unit is a one-part module, which can be removed from the pump and replaced by a pipe section of corresponding dimensions. The valve intake is formed by a plug socket, fitted into the pump outlet and/or is formed as a threaded socket.

IPC 1-7

F04B 53/10; F04B 53/20; F04D 13/06; F04B 17/06

IPC 8 full level

F04B 17/03 (2006.01); **F04B 17/06** (2006.01); **F04B 53/16** (2006.01); **F04D 13/06** (2006.01); **F04D 29/42** (2006.01)

CPC (source: EP)

F04B 17/03 (2013.01); **F04B 17/06** (2013.01); **F04B 53/16** (2013.01); **F04D 13/06** (2013.01); **F04D 29/426** (2013.01)

Citation (search report)

- [XY] EP 0819474 A2 19980121 - GARDENA KRESS & KASTNER GMBH [DE]
- [Y] US 3867071 A 19750218 - HARTLEY EZRA D
- [X] US 3876336 A 19750408 - NASH FLOYD M
- [A] US 5062452 A 19911105 - JOHNSON JERRY E [US]
- [A] US 4431433 A 19840214 - GERLACH CHARLES R [US], et al
- [A] EP 0663553 A1 19950719 - CO GE S R L [IT]
- [X] PATENT ABSTRACTS OF JAPAN vol. 009, no. 139 (M - 387) 14 June 1985 (1985-06-14)

Cited by

US10533674B2; US2017108135A1; EP1359259A1; EP3156660A1; CN107013493A; EP3156661A1; CN107013715A; RU2667862C2; US10626872B2

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