

Title (en)
Pump system

Title (de)
Pumpenaggregat

Title (fr)
Système de pompage

Publication
EP 1146231 A3 20030910 (DE)

Application
EP 01109023 A 20010411

Priority
DE 10018866 A 20000414

Abstract (en)
[origin: EP1146231A2] The pump unit has a pump, an electric motor driving the pump and a controller for the motor with a digital communications unit with an interface based on the Internet protocol. The communications unit (1) forms part of the pump unit and the interface (21) of the communications unit uses TCP/IP as the Internet protocol. Independent claims are also included for the following: a method of operating a pump.

IPC 1-7
F04B 49/06

IPC 8 full level
F04B 49/06 (2006.01)

CPC (source: EP)
F04B 49/065 (2013.01); **F04D 15/0066** (2013.01); **F04D 15/0088** (2013.01)

Citation (search report)
• [X] WO 0004427 A1 20000127 - UNITED TECHNOLOGY PTY LTD [AU], et al
• [X] DE 19826169 A1 19991216 - KAESER KOMPRESSOREN GMBH [DE]
• [Y] EP 0664399 A1 19950726 - GRUNDFOS AS [DK]
• [Y] EP 0825506 A2 19980225 - FOXBORO CORP [US]

Cited by
EP3462032B1; DE102012104214A1; CN107002693A; EP3546751A1; US7544046B2; WO03089791A1; US10132508B2; US11365891B2; US11625052B2; US11966238B2; WO2016086986A1; WO2016087056A1; EP3485166B1; EP1577559B2; EP3240259B2; EP3462032A1

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