

Title (en)  
SUBMERSIBLE PUMP AND AUTOMATIC LIQUID LEVEL CONTROL METHOD

Title (de)  
TAUCHPUMPE UND VERFAHREN ZUR AUTOMATISCHEN FLÜSSIGKEITSSTANDSSTEUERUNG

Title (fr)  
POMPE SUBMERSIBLE ET PROCÉDÉ DE COMMANDE AUTOMATIQUE DE NIVEAU DE LIQUIDE

Publication  
**EP 4328452 A1 20240228 (EN)**

Application  
**EP 22214281 A 20221216**

Priority  
CN 202211016262 A 20220824

Abstract (en)  
The present application provides a submersible pump. The submersible pump includes a pump body (1) provided thereon with a control panel (2); a controller (11) electrically connected to at least two sensing assemblies (3); and the sensing assemblies (3), each including a liquid level sensor (32), an indicator light (33), and a switch (31); where, the switch (31) is provided on the control panel (2) and is configured to turn on or off the liquid level sensor (32); the indicator light (33) is configured to display an on/off state of the liquid level sensor (32); and all the liquid level sensors (32) are arranged at different heights on a side of the pump body (1). The submersible pump can simultaneously turn on at most two liquid level sensors through the switches and detect different liquid levels by turning on the liquid level sensors at different heights.

IPC 8 full level  
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CPC (source: CN EP)  
**F04D 13/10** (2013.01 - CN); **F04D 15/00** (2013.01 - CN); **F04D 15/0218** (2013.01 - EP); **F04D 13/086** (2013.01 - EP)

Citation (applicant)  
CN 213331574 U 20210601 - JIANGSU HAI CHENG HYDRAULIC MACHINERY CO LTD

Citation (search report)  
• [XY] EP 3875765 A1 20210908 - HUSQVARNA AB [SE]  
• [Y] EP 3945214 A1 20220202 - HUSQVARNA AB [SE]  
• [Y] IT MI20130025 A1 20140711 - COMBI LILIANA  
• [Y] WO 2015080886 A2 20150604 - CUMMINGS EUGENE M [US]

Designated contracting state (EPC)  
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Designated extension state (EPC)  
BA

Designated validation state (EPC)  
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