

Title (en)
PUMP ARRANGEMENT HAVING SAFETY VALVE

Title (de)
PUMPENANORDNUNG MIT SICHERHEITSVENTIL

Title (fr)
ENSEMBLE POMPE AVEC SOUPAPE DE SÉCURITÉ

Publication
EP 2220371 A1 20100825 (DE)

Application
EP 07846798 A 20071123

Priority
EP 2007010198 W 20071123

Abstract (en)
[origin: WO2009065427A1] A pump arrangement comprises a pump (20) having a pump inlet (22) and a pump outlet (24), which are designed to pump a fluid from the pump inlet to the pump outlet, and it further comprises a safety valve (40), which is disposed between the pump outlet (24) and an outlet (48) of the pump arrangement and comprises a valve set (42) and a valve cover (44). The valve seat, the pump outlet, and the pump inlet are structured in a first surface of a first single-piece part (14) of the pump arrangement, while the valve cover is configured in a second single-piece part (12) of the pump arrangement. An inlet (46) of the pump arrangement and a fluid region (50) fluidically connected therewith are configured in a third part (10) of the pump arrangement. The second single-piece part (12) is disposed between the first single-piece part (14) and the third part (10) of the pump arrangement such that a pressure present in the fluid region closes the safety valve, wherein the pump inlet and the inlet of the pump arrangement are fluidically connected.

IPC 8 full level
F04B 43/04 (2006.01)

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F04B 43/043 (2013.01 - EP US); **F04B 43/12** (2013.01 - EP US); **F04B 43/14** (2013.01 - EP US); **F04B 49/10** (2013.01 - EP US)

Citation (search report)
See references of WO 2009065427A1

Cited by
DE102015224619A1; US10550833B2; DE102015224622A1; US11022470B2

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