Title (en)

WELL-WATER SUPPLY DEVICE

Title (de)

SPEISEVORRICHTUNG FÜR BRUNNENWASSER

Title (fr)

DISPOSITIF D'ALIMENTATION EN EAU DE PUITS

Publication

EP 3921480 A4 20221116 (EN)

Application

EP 19914627 A 20191217

Priority

- RU 2019103564 A 20190208
- RU 2019000957 W 20191217

Abstract (en)

[origin: WO2020162787A1] The well-water supply device contains a base (5), an elastic sealing ring (6) of elastic material and a clamping flange (7), tightened by connecting elements (30), for the installation on the casing pipe (16) of the well, a hydraulic accumulator (1) with a housing and a working chamber, with a connecting fitting on the inlet (48), and a manifold (4), made with two oppositely located connecting parts with an end-to-end internal channel (40) and an outlet internal channel (41), moreover, the latter is made with the possibility of connection to the major pipeline of the water supply consumer on the one side, and is connected to the said end-to-end internal channel (40), connected through the connecting fitting (48) with the working chamber of the hydraulic accumulator (1) on the other side. The manifold (4) is supplied with a plug (18) to drain the water from the device, one connecting part (3) of the manifold (4) is used to rigidly fix it to the housing of the hydraulic accumulator (1), while the other connecting part (32) is used to rigidly fix it to the base (5). It has a compression fitting (9, 10, 11, 12) for connection of the end-to-end internal channel (40) to the pressure pipe (17) of the submersible pump of the well. The clamping flange (7) is designed to be installed around the casing pipe (16,) while the base (5) - at the end of the casing pipe (16) of the well. The manifold (4) is fixed by a connecting part made in the form of an annular belt (32) in a cylindrical bore made on the base (5), while by another connecting part made in the form of an annular recess to the flange on the hydraulic accumulator (1) housing. The technical result is to reduce the size and weight by reducing the length of major pipelines (there is no special major pipeline between the well and the hydraulic accumulator).

IPC 8 full level

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CPC (source: EP)

E03B 5/045 (2013.01); **E03B 5/06** (2013.01); **E03B 11/02** (2013.01); F04B 11/0016 (2013.01); F04B 2205/06 (2013.01); F04D 13/16 (2013.01); Y02A 20/00 (2017.12)

Citation (search report)

- [A] CA 2119900 A1 19950912 - COSSETTE NORMAND [CA]
- [A] US 4308916 A 19820105 - FRITZ JR RICHARD R
- [A] US 3865512 A 19750211 - DETERS ELMER M
- [A] DE 2810738 A1 19790920 - SIEMENS AG
- See references of WO 2020162787A1

Designated contracting state (EPC)

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WO 2020162787 A1 20200813; EA 202100131 A1 20211122; EP 3921480 A1 20211215; EP 3921480 A4 20221116

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