

Title (en)
INTAKE DEVICE FOR A VERTICAL PUMP, ARRANGEMENT COMPRISING SUCH AN INTAKE DEVICE AND METHOD OF RETROFITTING A VERTICAL PUMP

Title (de)
EINLASSVORRICHTUNG FÜR EINE VERTIKALE PUMPE, ANORDNUNG MIT SOLCH EINER EINLASSVORRICHTUNG UND VERFAHREN ZUR NACHRÜSTUNG EINER VERTIKALEN PUMPE

Title (fr)
DISPOSITIF D'ADMISSION POUR POMPE VERTICALE, AGENCEMENT COMPRENANT UN TEL DISPOSITIF D'ADMISSION ET PROCÉDÉ DE RÉTROFITAGE D'UNE POMPE VERTICALE

Publication
EP 3453890 A1 20190313 (EN)

Application
EP 17189670 A 20170906

Priority
EP 17189670 A 20170906

Abstract (en)
An intake device is proposed for a vertical pump having a suction bell (21), an outlet (22) and a column pipe (24) arranged between the suction bell (21) and the outlet (22), the intake device comprising an inlet section (2) with an inlet opening (5) for a fluid to be pumped by the vertical pump, an outlet section (4) for guiding the fluid into the suction bell (21) of the vertical pump, and a cylindrical section (3) extending in an axial direction (A) and connecting the inlet section (2) with the outlet section (4), wherein the intake device is configured to receive and to surround the suction bell (21) and at least a part of the column pipe (24) of the vertical pump (20), and wherein the outlet section (4) comprises a bottom wall (41) for closing the intake device at a lower end, wherein the inlet section (2) is designed as a funnel-shaped inlet section (2) and tapering in the axial direction (A) from the inlet opening (5) towards the cylindrical section (3), wherein the inlet section (5) is configured to surround the column pipe (24) of the vertical pump with the inlet opening (5) extending completely around the column pipe (24). In addition, an arrangement comprising a vertical pump (20) and an intake device (1) is proposed, as well as a method of retrofitting a vertical pump.

IPC 8 full level
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CPC (source: EP)
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Citation (applicant)
US 8177500 B2 20120515 - BREDWAD VIKTOR [SE], et al

Citation (search report)

- [XII] JP 2009222003 A 20091001 - EBARA CORP, et al
- [XAI] JP 2004332365 A 20041125 - TORISHIMA PUMP MFG CO LTD
- [A] JP H10238490 A 19980908 - HITACHI LTD
- [A] US 2001018023 A1 20010830 - TAGOMORI MASASHI [JP], et al
- [A] JP 2008232059 A 20081002 - KUBOTA KK

Designated contracting state (EPC)
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