

Title (en)

PUSHING FORCE CONVERTING MECHANISM AND CONCEALED WATER TANK

Title (de)

BETÄTIGUNGSMECHANISMUS UND SPÜLKASTEN

Title (fr)

MÉCANISME DE CONVERSION DE FORCE DE POUSSÉE ET RÉSERVOIR CHASSE D'EAU

Publication

EP 4095328 A1 20221130 (EN)

Application

EP 22172629 A 20220510

Priority

- CN 202121138185 U 20210525
- US 202217726150 A 20220421

Abstract (en)

The present disclosure provides a pushing force converting device (1) including a cylinder barrel (11). The cylinder barrel includes an air cavity (112); a mounting cavity (113); and an air cavity vent (114) in communication with the air cavity. The pushing force converting device also includes a piston (12) configured to slide back and forth in the cylinder barrel and slidably disposed in the mounting cavity; a transmission bar (13) connected with the piston and configured to drive the piston to move toward the air cavity; a restoring member (15) disposed in the cylinder barrel and configured to drive the piston or the transmission bar to be restored to a respective initial position; and a sealing ring (14) disposed on the piston and configured to seal the air cavity. The pushing force converting device disclosed by the present disclosure can convert mechanical pushing force into air pressure pushing force.

IPC 8 full level

E03D 5/02 (2006.01); **E03D 5/09** (2006.01)

CPC (source: EP)

E03D 5/024 (2013.01); **E03D 5/09** (2013.01)

Citation (applicant)

- CN 212248552 U 20201229 - KOHLER CHINA INVEST CO LTD
- CN 206916866 U 20180123 - KOHLER CHINA INVEST CO LTD

Citation (search report)

- [XA] EP 1498553 A1 20050119 - IDROLS SA [ES]
- [XAI] EP 1491690 A1 20041229 - VALSIR SPA [IT]
- [X] IT UA20163286 A1 20171020 - TAVARONE FRANCO [IT], et al

Designated contracting state (EPC)

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