

Title (en)
DISCHARGE VALVE

Title (de)
ABLAUFVENTIL

Title (fr)
SOUPAPE DE VIDANGE

Publication
EP 3469158 B1 20200729 (DE)

Application
EP 17732818 A 20170612

Priority
• DE 102016110694 A 20160610
• EP 2017064282 W 20170612

Abstract (en)
[origin: WO2017212068A2] The invention relates to a discharge valve arrangement (100) for a cistern (1), comprising a valve cage (2) which surrounds a discharge opening (4) on the circumference, and a valve body (3) which is arranged such that it can move along a vertical line relative to the valve cage (2), and a channel (300) which extends along the vertical line from an upper overflow opening (35) to a lower outlet opening (36) and fluidically connects said openings. A lower end portion of the valve body (3) is designed as a valve base (30) which comprises a seal (6) corresponding to the valve cage (2) and a wall (31) extending below the seal (6) and which surrounds the channel (300) on the circumference and forms the outlet opening on the lower end, the wall (31) extends in a continuous manner from the lower end to the seal (6) on a vertical extension length, the seal (6) rests about the discharge opening (4) on the valve cage (2) when the discharge valve arrangement (100) is in the closed position and the wall (31) is arranged inside the discharge opening (4). The continuous vertically extending length of the wall (31) varies in accordance with the angle of rotation about the vertical line by providing flow passages (32, 33) having a horizontal extension and a vertical extension for the horizontal flow of fluid, and to reduce a horizontal free cross-section of the channel (300), a locking element arranged inside the wall (31) comprises a horizontally extending flat closed locking cross-section, which is at a vertical distance from an absolute lower extension end of the wall (31).

IPC 8 full level
E03D 1/34 (2006.01); **E03D 9/14** (2006.01)

CPC (source: EP)
E03D 1/34 (2013.01); **E03D 9/14** (2013.01)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
DE 102016110694 A1 20171214; CN 109937280 A 20190625; CN 109937280 B 20210423; EP 3469158 A2 20190417;
EP 3469158 B1 20200729; WO 2017212068 A2 20171214; WO 2017212068 A3 20180201

DOCDB simple family (application)
DE 102016110694 A 20160610; CN 201780049236 A 20170612; EP 17732818 A 20170612; EP 2017064282 W 20170612