

Title (en)
SLIDE GATE VALVE, OPERATING METHOD AND USE

Title (de)
PLATTENSCHIEBER, BETRIEBSVERFAHREN UND VERWENDUNG

Title (fr)
SOUPAPE À TIROIR COULISSANT, PROCÉDÉ DE FONCTIONNEMENT ET UTILISATION

Publication
EP 4370815 A1 20240522 (DE)

Application
EP 22743815 A 20220713

Priority
• DE 102021118135 A 20210714
• DE 102022105939 A 20220315
• EP 2022069551 W 20220713

Abstract (en)
[origin: WO2023285506A1] The invention relates to a slide gate valve (10) for chemical and/or petrochemical industrial plants, comprising: - a valve housing (11), which comprises an inlet port (12) having an exit opening (13) and an outlet port (14) having an entry opening (15), which correspond with each other when the slide gate valve (10) is in an open position; - a blocking device (16) having at least one blocking plate (17) and having a pipe bridge (18), which is movably disposed between the inlet and outlet ports (12, 14) for the opening and closing of the slide gate valve (10); and - at least one guiding device (19) for guiding flow, the guiding device (19) having at least one guiding element (21), which is located on an inner wall (22) of the inlet port (12) and reduces the exit opening (13) of the inlet port (12) such that, as the slide gate valve (10) is being opened, an opening cross-section (23) of the exit opening (13) is enlarged at the moment of an initial, in particular first, flow ingress into the pipe bridge (18).

IPC 8 full level
F16K 3/02 (2006.01); **C10B 25/10** (2006.01); **F16K 3/18** (2006.01); **F16K 3/32** (2006.01); **F16K 3/34** (2006.01)

CPC (source: EP KR US)
C10B 25/08 (2013.01 - US); **C10B 25/10** (2013.01 - EP KR); **F16K 3/0209** (2013.01 - EP KR US); **F16K 3/186** (2013.01 - EP KR); **F16K 3/32** (2013.01 - EP KR); **F16K 3/34** (2013.01 - EP KR US); **F16K 3/186** (2013.01 - US)

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

Designated extension state (EPC)
BA ME

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
WO 2023285506 A1 20230119; CA 3223772 A1 20230119; EP 4370815 A1 20240522; KR 20240031310 A 20240307; US 2024344613 A1 20241017

DOCDB simple family (application)
EP 2022069551 W 20220713; CA 3223772 A 20220713; EP 22743815 A 20220713; KR 20247000809 A 20220713; US 202218578455 A 20220713