

Title (en)
DOSING SYSTEM WITH DOSING MATERIAL COOLING DEVICE

Title (de)
DOSIERSYSTEM MIT DOSIERSTOFF-KÜHLEINRICHTUNG

Title (fr)
SYSTÈME DE DOSAGE COMPORTANT UN DISPOSITIF DE REFROIDISSEMENT DE SUBSTANCE À DOSER

Publication
EP 3860770 A1 20210811 (DE)

Application
EP 19782926 A 20190924

Priority
• DE 102018124663 A 20181005
• EP 2019075645 W 20190924

Abstract (en)
[origin: WO2020069910A1] The invention relates to a dosing system (1) for a dosing material, comprising a dosing device (5) with a housing (11), wherein the housing (11) comprises a feed channel (80) for the dosing material, a nozzle (40), a discharge element (31) and an actuator unit (10) coupled to the discharge element (31) and/or the nozzle (40). The dosing device (5) also comprises a dosing material reservoir (70) which is coupled to the housing (11) or integrated into the housing (11). The dosing system (1) has a plurality of temperature control devices (2, 2', 2'') which are respectively assigned to different temperature zones (6, 6', 6'') of the dosing system (1) in order to control the temperature zones (6, 6', 6'') differently. At least one first temperature zone (6) is assigned to the dosing material reservoir (70) and at least one second temperature zone (6'') is assigned to the nozzle (40). Preferably, at least one of the temperature control devices (2, 2', 2''), preferably at least the temperature control device (2) assigned to the dosing material reservoir (6), comprises a cooling device (3, 3', 3'') having a cold source (93, 93', 95, 99).

IPC 8 full level
B05C 5/00 (2006.01); **B05C 5/02** (2006.01)

CPC (source: EP KR US)
B05C 5/001 (2013.01 - EP KR US); **B05C 5/0225** (2013.01 - EP KR US); **B05C 11/1042** (2013.01 - EP KR US); **B05D 1/26** (2013.01 - KR); **B05D 1/26** (2013.01 - EP 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

DOCDB simple family (publication)
WO 2020069910 A1 20200409; CN 112739462 A 20210430; CN 112739462 B 20230523; DE 102018124663 A1 20200409; EP 3860770 A1 20210811; JP 2022501185 A 20220106; JP 7482857 B2 20240514; KR 20210068411 A 20210609; SG 11202102410Q A 20210429; US 11602763 B2 20230314; US 2022040725 A1 20220210

DOCDB simple family (application)
EP 2019075645 W 20190924; CN 201980062162 A 20190924; DE 102018124663 A 20181005; EP 19782926 A 20190924; JP 2021515590 A 20190924; KR 20217008266 A 20190924; SG 11202102410Q A 20190924; US 201917278616 A 20190924