

Title (en)
METERING DEVICE

Title (de)
DOSIEREINRICHTUNG

Title (fr)
DISPOSITIF DE DOSAGE

Publication
EP 3374634 A1 20180919 (DE)

Application
EP 16805733 A 20161111

Priority
• DE 202015106101 U 20151111
• EP 2016077418 W 20161111

Abstract (en)
[origin: WO2017081242A1] The invention relates to a metering device for metering an easily combustible material, in particular acrolein acetal, from a source or a storage container (20) into a vacuum line (38), comprising: a displacement pump (26) operated via a compressed air motor (28), the pumping capacity of which can be controlled; and a pressure-sustaining and pressure-controlling valve (35), arranged between the displacement pump (26) and the vacuum line (38), the dimensionless delivery head H/H_0 [mWs/1mWs] of which is associated with the dimensionless delivery capacity Q/Q_0 [m³/h/1m³/h] according to formula: $\{H/H_0\} = \{C_1 \cdot (Q/Q_0)\}^{0.333}$, wherein H = hydraulic pressure at the input of the pressure-sustaining and pressure-controlling valve, $H_0 = 1$ mWS, C_1 = constant for the pressure-sustaining and pressure-controlling valve, Q = hydraulic flow rate, and $Q_0 = 1$ m³/h.

IPC 8 full level
F04B 15/00 (2006.01); **B01D 3/10** (2006.01); **B01D 3/42** (2006.01); **F04B 9/12** (2006.01); **F04B 13/00** (2006.01); **F04B 49/22** (2006.01); **F04B 53/10** (2006.01); **F16K 17/04** (2006.01)

CPC (source: EP US)
F04B 9/12 (2013.01 - EP US); **F04B 13/00** (2013.01 - EP US); **F04B 15/00** (2013.01 - EP US); **F04B 49/22** (2013.01 - EP US); **F04B 53/10** (2013.01 - EP US); **F04B 53/103** (2013.01 - US)

Citation (search report)
See references of WO 2017081242A1

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)
DE 202015106101 U1 20160201; CN 108884818 A 20181123; EP 3374634 A1 20180919; US 2018328351 A1 20181115; WO 2017081242 A1 20170518

DOCDB simple family (application)
DE 202015106101 U 20151111; CN 201680078600 A 20161111; EP 16805733 A 20161111; EP 2016077418 W 20161111; US 201615774998 A 20161111