

Title (en)  
METERING DEVICE

Title (de)  
DOSIERVORRICHTUNG

Title (fr)  
DISPOSITIF DE DOSAGE

Publication  
**EP 3481742 A1 20190515 (DE)**

Application  
**EP 17740679 A 20170706**

Priority  
• DE 102016212377 A 20160707  
• EP 2017066963 W 20170706

Abstract (en)  
[origin: WO2018007536A1] The invention relates to a metering device (1) for the metered application of a highly viscous product onto a substrate (2), comprising a housing (3) with an inner side (7) and an outer side (6), a cartridge (10) forming a receiving space (14) for the highly viscous product to be metered, a piston (20) and a spring element (17), wherein at least one engaging element (22) is formed on the inner side (7) of the housing (3) and a row of neighbouring engaging recesses (21) is formed on the piston (20), wherein both the engaging element (22) and the engaging recesses (21) are arranged outside of the receiving space (14), and wherein the engaging element (22) engages into an engaging recess (21) on the piston (20) with an actuation of the metering device (1), and wherein, after an actuation of the metering device (1), a returning movement of the housing (3) into the starting position thereof brings about a transition of the engaging element (22) from the engaging recess (21) into a neighbouring engaging recess (21).

IPC 8 full level  
**B65D 83/00** (2006.01); **E03D 9/02** (2006.01)

CPC (source: EP US)  
**B65D 83/0022** (2013.01 - EP US)

Citation (search report)  
See references of WO 2018007536A1

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 102016212377 A1 20180111**; CN 109153491 A 20190104; CN 109153491 B 20201030; EP 3481742 A1 20190515; EP 3481742 B1 20200415; ES 2790323 T3 20201027; PL 3481742 T3 20200921; US 10501257 B2 20191210; US 2019135524 A1 20190509; WO 2018007536 A1 20180111

DOCDB simple family (application)  
**DE 102016212377 A 20160707**; CN 201780030054 A 20170706; EP 17740679 A 20170706; EP 2017066963 W 20170706; ES 17740679 T 20170706; PL 17740679 T 20170706; US 201916239805 A 20190104