

Title (en)
DISPENSING SYSTEM FOR A PLURALITY OF MASSES

Title (de)
AUSGABESYSTEM FÜR MEHRERE MASSEN

Title (fr)
SYSTEME DE DISTRIBUTION POUR UNE PLURALITE DE MASSES

Publication
EP 2478221 A1 20120725 (DE)

Application
EP 10752784 A 20100906

Priority
• DE 102009029607 A 20090918
• EP 2010063039 W 20100906

Abstract (en)
[origin: WO2011032855A1] The invention relates to an output system (100) for extraction and/or output of a plurality of masses (220), comprising a cylinder unit (300) consisting of at least two double-acting cylinders (301, 304) each having a piston (303) that can be moved by a piston rod (302, 305) for extracting and/or outputting one of the masses (220) at a time, wherein the piston rods (302, 305) are arranged parallel to one another and are interconnected via at least one connecting element (307) such that the connected piston rods (302, 305) can be moved as a unit. The control system also has a control unit (200) comprising at least two valves (201, 204) for controlling the supply and return of the masses (220) to the cylinders (301, 304).

IPC 8 full level
F04B 13/00 (2006.01)

CPC (source: EP US)
F04B 13/00 (2013.01 - EP US)

Citation (search report)
See references of WO 2011032855A1

Cited by
CN108697583A

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 SE SI SK SM TR

DOCDB simple family (publication)
DE 102009029607 A1 20110324; EP 2478221 A1 20120725; EP 2478221 B1 20140430; US 2012285151 A1 20121115;
US 8640601 B2 20140204; WO 2011032855 A1 20110324

DOCDB simple family (application)
DE 102009029607 A 20090918; EP 10752784 A 20100906; EP 2010063039 W 20100906; US 201213423529 A 20120319