

Title (en)
MIXING AND CONVEYING SYSTEM FOR DRY MORTAR MATERIALS FROM A STORAGE SILO

Title (de)
MISCH- UND FÖRDERANLAGE FÜR TROCKENBAUSTOFFE AUS EINEM VORRATSSILO

Title (fr)
INSTALLATION DE MÉLANGE ET DE TRANSPORT POUR MATÉRIAUX DE CONSTRUCTION SECS PROVENANT D'UN SILO DE STOCKAGE

Publication
EP 3079872 A1 20161019 (DE)

Application
EP 14830873 A 20141204

Priority
• CH 20512013 A 20131210
• IB 2014066596 W 20141204

Abstract (en)
[origin: WO2015087214A1] The invention relates to a mixing and conveying system for dry mortar materials. The dry mortar materials can be obtained from a storage silo (1) through an openable closure panel (3). A pipe (17), in which a drivable screw conveyor (4) is mounted, is arranged under the closure panel (3). The pipe (17) leads into a mixing and buffer container (18), in which a coil (20) is rotatably mounted on a central axis (19). The mixing and buffer container (18) has a volume which equals at least 1.5-times the minute capacity of the pump-screw conveyor (14). It is thus ensured that the dry mortar material is mixed therein with the added water for at least 90 seconds or longer. The mixing and buffer container (18) leads into a pipe (15) at the bottom having a pump-screw conveyor (14) which conveys the mixed mortar into a hose (5). The pump-screw conveyor (14) can be allowed to run backward. The coil (20) runs continually such that the mortar is constantly agitated to prevent setting.

IPC 8 full level
B01F 7/04 (2006.01); **B01F 7/24** (2006.01); **B01F 15/02** (2006.01); **B28C 5/12** (2006.01)

CPC (source: CH EP US)
B01F 23/54 (2022.01 - US); **B01F 27/1145** (2022.01 - EP US); **B01F 27/70** (2022.01 - CH EP US); **B01F 27/92** (2022.01 - CH); **B01F 27/923** (2022.01 - EP US); **B01F 35/71775** (2022.01 - EP US); **B01F 35/752** (2022.01 - EP US); **B01F 35/754551** (2022.01 - EP US); **B28C 5/1276** (2013.01 - EP US); **B28C 5/1284** (2013.01 - CH US); **E04G 21/02** (2013.01 - CH); **B01F 23/565** (2022.01 - US); **B01F 2101/28** (2022.01 - US)

Citation (search report)
See references of WO 2015087214A1

Cited by
CN111167330A

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)
CH 708983 A2 20150615; CH 708983 B1 20171229; DK 3079872 T3 20200323; EP 3079872 A1 20161019; EP 3079872 B1 20191225; ES 2778523 T3 20200810; PT 3079872 T 20200325; US 10427323 B2 20191001; US 2017008193 A1 20170112; WO 2015087214 A1 20150618

DOCDB simple family (application)
CH 20512013 A 20131210; DK 14830873 T 20141204; EP 14830873 A 20141204; ES 14830873 T 20141204; IB 2014066596 W 20141204; PT 14830873 T 20141204; US 201415102533 A 20141204