

Title (en)

METHOD FOR CONTROLLING A THICK MATTER PUMP

Title (de)

VERFAHREN ZUR ANSTEUERUNG EINER DICKSTOFFPUMPE

Title (fr)

PROCEDE DE COMMANDE D'UNE POMPE A MATIERES EPAISSES

Publication

**EP 1419316 A1 20040519 (DE)**

Application

**EP 02754826 A 20020704**

Priority

- DE 10140193 A 20010822
- EP 0207397 W 20020704

Abstract (en)

[origin: WO03019007A1] The invention concerns a method for controlling a thick matter pump comprising two delivery cylinders (10) emerging, via two openings (12), into a matter reservoir (14), associated with two delivery pistons (26), symmetrically synchronized relative to said cylinders, and a branch pipe (18) arranged inside the matter reservoir (14), capable of being connected, on the input side, alternately to the openings of the delivery cylinders and connected, on the output side, each time an opening is cleared, to a delivery pipe (20). When the pump is switched on, the thick matter, liquid concrete for example, is sucked up, via the delivery cylinders temporarily communicating with the reservoir, and is delivered, via the other cylinders (10) connected to the branch pipe (18), so as to form a column of thick matter through the delivery pipe (20), towards its output. In order to avoid problems of deposit, condensation and solidification, the invention is characterized in that the thick matter column is maintained, at least temporarily, in movement, when the pump is stopped, in the delivery pipe (20) and/or the branch pipe (18) and/or the delivery cylinders (10), while not allowing the thick matter to escape, on the output side, from said delivery pipe (20). The invention is further characterized in that, when the pump is stopped, the thick matter in the matter reservoir and/or a stirring system (34), is likewise maintained in movement through the feeding and output branch piping.

IPC 1-7

**F04B 15/02**

IPC 8 full level

**F04B 49/10** (2006.01); **F04B 15/02** (2006.01)

CPC (source: EP KR US)

**F04B 15/02** (2013.01 - KR); **F04B 15/023** (2013.01 - EP US); **Y10S 417/90** (2013.01 - EP US)

Citation (search report)

See references of WO 03019007A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)

**WO 03019007 A1 20030306**; AT E339613 T1 20061015; CN 1492968 A 20040428; DE 10140193 A1 20030313; DE 50208162 D1 20061026; EP 1419316 A1 20040519; EP 1419316 B1 20060913; ES 2271309 T3 20070416; JP 2005501196 A 20050113; JP 4221293 B2 20090212; KR 100819990 B1 20080407; KR 20040027978 A 20040401; US 2004146412 A1 20040729; US 7131820 B2 20061107

DOCDB simple family (application)

**EP 0207397 W 20020704**; AT 02754826 T 20020704; CN 02805294 A 20020704; DE 10140193 A 20010822; DE 50208162 T 20020704; EP 02754826 A 20020704; ES 02754826 T 20020704; JP 2003523833 A 20020704; KR 20047002591 A 20020704; US 47610603 A 20031024