

Title (en)

Piston speed modulation for a concrete pump

Title (de)

Veränderung der Kolbengeschwindigkeit in einer Betonpumpe

Title (fr)

Variation de la vitesse de course des pistons d'une pompe à béton

Publication

EP 0971127 B1 20070321 (EN)

Application

EP 99113575 A 19990708

Priority

IT MI981571 A 19980709

Abstract (en)

[origin: EP0971127A1] The invention concerns a concrete pump, of the type comprising a pair of pumping cylinders alternatively operating under the control of a backflow hydraulic pump - to draw concrete from a hopper and feed it, by way of a rocking valve (S-valve), into the transport and delivery duct - wherein said cylinders are provided with stops to control the starting movement of the S-valve. According to the invention, the speed of the piston stroke of said cylinders is modulated by being increased in the initial length of said stroke, and electronic means are provided to control said speed according to the maximum concrete capacity allowed by the pump. <IMAGE>

IPC 8 full level

F04B 15/02 (2006.01)

CPC (source: EP)

F04B 15/02 (2013.01); **F04B 2201/0202** (2013.01)

Cited by

NL2005671C2; CN103423139A; CN115143072A; CN108626091A; WO2013174120A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 0971127 A1 20000112; EP 0971127 B1 20070321; AT E357596 T1 20070415; CY 1107646 T1 20130418; DE 69935551 D1 20070503; DE 69935551 T2 20071129; DK 0971127 T3 20070716; ES 2284229 T3 20071101; IT MI981571 A1 20000109; PT 971127 E 20070626

DOCDB simple family (application)

EP 99113575 A 19990708; AT 99113575 T 19990708; CY 071100734 T 20070604; DE 69935551 T 19990708; DK 99113575 T 19990708; ES 99113575 T 19990708; IT MI981571 A 19980709; PT 99113575 T 19990708