Title (en)

Actuation of the S-valve of a concrete pump prior to completion of piston stroke

Title (de)

Betätigung des S-Ventils einer Betonpumpe vor Beendigung des Kolbenhubs

Title (fr)

Actionnement de la soupape à S d'une pompe à béton avant la fin de sa course de piston

Publication

EP 0971126 A1 20000112 (EN)

Application

EP 99113573 A 19990708

Priority

IT MI981572 A 19980709

Abstract (en)

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 advance of the starting movements of the S-valve and wherein the motion of the pistons in the cylinders is reversed in respect of the moment in which said pistons reach the top dead center. According to the invention, said stops are located in the position for the most efficient working with the highest number of pumping cycles per minute, and electronic means are provided to set said advance time, by delaying the starting movement of the S-valve and the reversal of the backflow hydraulic pump according to the actual number of pumping cycles per minute. <IMAGE>

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F04B 15/02

IPC 8 full level

F04B 15/02 (2006.01)

CPC (source: EP)

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Citation (search report)

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