Title (en)
HYDRAULIC SYSTEM FOR LINEAR DRIVES CONTROLLED BY A DISPLACER ELEMENT

Title (de)
HYDRAULIKSYSTEM FÜR VERDRÄNGERGESTEUERTE LINEARANTRIEBE

Title (fr)
SYSTEME HYDRAULIQUE POUR ENTRAINEMENTS LINEAIRES COMMANDES PAR DES ELEMENTS DEPLACEURS

Publication
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Application
EP 04701896 A 20040114

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Abstract (en)
[origin: WO2004067969A1] The invention relates to a hydraulic system for linear drives controlled by displacer elements, especially for mobile working machines. Said hydraulic system comprises at least one differential cylinder, at least one high pressure circuit comprising at least one pump with adjustable conveying capacity and a reversal of the direction of conveyance and which is connected to a low pressure system by means of at least two unlockable non-return valves. The aim of the invention is produce a hydraulic system which avoids numerous disadvantages related to prior art, enables the linear cylinders to be controlled in a precise and energy efficient manner, can be maintained in a simple and economic manner and can be easily integrated into the overall hydraulic system of said type of machines. The non-return valves (7, 8) are thus connected to an electronic control device enabling switchingless transfer between an inlet or an outlet of the differential cylinders and a floating position.

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F15B 7/00; F15B 21/08

IPC 8 full level
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F15B 7/006 (2013.01 - EP US); **F15B 21/082** (2013.01 - EP US)

Citation (search report)
See references of WO 2004067969A1

Cited by
EP2361334A4; WO2010054149A2; WO2010054155A2; DE102012101231A1; US9334884B2

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