

Title (en)
Distributing valve.

Title (de)
Wegeventil.

Title (fr)
Distributeur.

Publication
EP 0052709 A1 19820602 (DE)

Application
EP 81107400 A 19810918

Priority
DE 3044420 A 19801126

Abstract (en)
1. Directional valve (11) with a longitudinal slide (13) which is guided in a longitudinal bore (12) of a housing (10) and is actuated by hand via a control lever and which, in each of its two working positions, makes a connection between a pressure-medium source (21) and at least one double-acting consumer and between the latter and a return (25, 26), the load pressure acting, via a piston (37) subjected to the consumer pressure, on the longitudinal slide (13), in such a way that a counterforce is exerted on the latter counter to its direction of actuation, characterised in that there is in the longitudinal slide (13) a blind bore (36), into which the piston (37), designed as a differential piston and fixed to a housing (10), penetrates and there divides from one another two pressure spaces (39, 45) of different cross-sections, in that, in one working position of the direction valve, the pressure space (45) of smaller cross-section is connected to the one consumer side (27) and the pressure space (39) of larger cross-section is connected to the return (25), and in that, in the other working position, both pressure spaces (45, 39) are connected to the other consumer side (28).

Abstract (de)
Der Steuerschieber (13) des Wegeventils (11) wird über einen Steuerhebel von Hand betätigt. Damit der das Ventil Bedienende eine Information über die Größe des Lastdrucks am Verbraucher hat, wird der Lastdruck bei Betätigen des Steuerschiebers über Gehäusekanäle (54 bzw. 55) in im Steuerschieber ausgebildete Druckkammern (39, 45) geleitet, die durch einen sich am Gehäuse abstützenden Differentialkolben (37) getrennt sind. Im Zusammenwirken mit diesem Kolben wird auf den Steuerschieber eine dem Lastdruck proportionale aber der Betätigungskraft entgegengesetzte Kraft ausgeübt, die dem Bedienenden den Lastdruck signalisiert.

IPC 1-7
F15B 13/14

IPC 8 full level
F15B 13/14 (2006.01)

CPC (source: EP)
F15B 13/14 (2013.01)

Citation (search report)
• [X] DE 1696047 A1 19711118 - WALTER MASCH J
• [A] US 3152610 A 19641013 - MCAFEE JR KYLE E
• [A] GB 796496 A 19580611 - BRITISH MESSIER LTD

Cited by
KR101148149B1; WO9805870A1

Designated contracting state (EPC)
DE FR GB IT

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