

Title (en)
Input apparatus.

Title (de)
Eingangsglied.

Title (fr)
Dispositif d'entrée.

Publication
EP 0567698 A1 19931103 (EN)

Application
EP 92303846 A 19920429

Priority
EP 92303846 A 19920429

Abstract (en)
An input apparatus capable of concurrently accommodating itself to any external signal from a different hydraulic control system or the like. The apparatus includes electrical load sensors (48) each arranged on a push rod (14) or block (18) for detecting the amount of operation of a control lever (12) to generate an electrical signal corresponding to the amount of operation of the control lever. Also, an input apparatus which is capable of concurrently responding to both a signal generated by itself and an external signal fed thereto is provided. The apparatus includes a pilot section (148; 160; 162,164) for exerting force which permits a shuttle (128) to be moved against coiled compression springs (114, 118). The pilot section is fed with a signal from an external hydraulic control system. <IMAGE>

IPC 1-7
F15B 13/042; E02F 9/20; G05G 9/04

IPC 8 full level
E02F 9/20 (2006.01); **F15B 13/042** (2006.01); **G05G 9/04** (2006.01)

CPC (source: EP)
E02F 9/2004 (2013.01); **F15B 13/0422** (2013.01); **F15B 13/0424** (2013.01); **G05G 9/04** (2013.01)

Citation (search report)
• [Y] EP 0383560 A1 19900822 - KOBE STEEL LTD [JP]
• [Y] EP 0447334 A1 19910918 - SEXTANT AVIONIQUE [FR]
• [A] DE 8508774 U1 19850613
• [A] EP 0117806 A1 19840905 - REXROTH SIGMA [FR]
• [A] DE 3216659 A1 19830127 - FIAT ALLIS EUROP [IT]
• [A] GB 2101721 A 19830119 - DANA CORP [US]
• [A] GB 2211280 A 19890628 - DACO SCIENT LIMITED [GB]
• [A] DE 2030048 A1 19711104 - ASKANIA GMBH

Cited by
FR2709166A1; CN100419277C; JP2015175174A; EP2716919A4; FR2970350A1; CN103299090A; US9624647B2; WO2012093240A1

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
EP 0567698 A1 19931103; **EP 0567698 B1 19971022**; DE 69222843 D1 19971127; DE 69222843 T2 19980219

DOCDB simple family (application)
EP 92303846 A 19920429; DE 69222843 T 19920429