

Title (en)  
ELECTROMAGNETIC DIRECTIONAL CONTROL VALVE.

Title (de)  
ELEKTROMAGNETISCH BETÄTIGTES WEGEVENTIL.

Title (fr)  
DISTRIBUTEUR A COMMANDE ELECTROMAGNETIQUE.

Publication  
**EP 0471785 B1 19940810**

Application  
**EP 90908473 A 19900509**

Priority  
• DE 3915223 A 19890510  
• DE 9000327 W 19900509

Abstract (en)  
[origin: WO9013749A1] In an electromagnetic directional control valve (10), a mechanical restoring device (41) associated with the spool valve (14) is incorporated in a pressure pipe (25) of a magnet (12). The pressure pipe (25) has a hollow (31) on the valve side which houses a restoring spring (36) and an associated spring plate (33) which passes through the pressure pipe (25) by means of a holding device (39). The pressure pipe (25) and restoring device (41) can thus be handled and mounted jointly as a functional unit.

IPC 1-7  
**F15B 13/044**

IPC 8 full level  
**F15B 13/04** (2006.01); **F15B 13/044** (2006.01)

CPC (source: EP US)  
**F15B 13/0402** (2013.01 - EP US); **F15B 13/044** (2013.01 - EP US); **Y10T 137/86622** (2015.04 - EP US)

Designated contracting state (EPC)  
DE FR GB IT

DOCDB simple family (publication)  
**WO 9013749 A1 19901115**; DE 3915223 A1 19901115; DE 59006785 D1 19940915; EP 0471785 A1 19920226; EP 0471785 B1 19940810; JP 2933712 B2 19990816; JP H04505206 A 19920910; US 5197709 A 19930330

DOCDB simple family (application)  
**DE 9000327 W 19900509**; DE 3915223 A 19890510; DE 59006785 T 19900509; EP 90908473 A 19900509; JP 50789090 A 19900509; US 77390391 A 19911029