

Title (en)  
Valve stack

Title (de)  
Ventilanordnung

Title (fr)  
Bloc-valve

Publication  
**EP 0678676 B1 19990107 (DE)**

Application  
**EP 95104163 A 19950322**

Priority  
DE 4413657 A 19940420

Abstract (en)  
[origin: EP0678676A2] The valve arrangement has at least one valve unit (1), which incorporates a main valve (5) and at least one pre-control valve (6) acting as its control and having an electrically operating unit (38). In a base plate (7) of the valve unit, which has two arms (28) extending to the same side and limiting an installation space (33), several valve channels (14) run, which encompass at least one feed channel (15), at least one centring channel (17), and at least one work channel (16). The arms communicate with a slide accommodation (8) of the main valve, in which a valve slide (12) of the main valve axially movable between various switch positions is arranged. The electrically controlled operating unit is arranged so that its electrical contacts extend from a central section. <IMAGE>

IPC 1-7  
**F15B 13/00**; **F15B 13/043**

IPC 8 full level  
**F15B 13/00** (2006.01); **F15B 13/043** (2006.01); **F15B 13/08** (2006.01)

CPC (source: EP KR US)  
**F15B 13/08** (2013.01 - KR); **F15B 13/0839** (2013.01 - EP US); **F15B 13/0857** (2013.01 - EP US); **Y10T 137/86614** (2015.04 - EP US); **Y10T 137/87209** (2015.04 - EP US); **Y10T 137/87885** (2015.04 - EP US)

Cited by  
WO2009127224A1; DE10347590B3; DE102007035017B3; DE102011100327B3; DE102004032847B3; DE10334206A1; DE10334206B4; DE10021518A1; US6745793B2; DE10354269A1; DE10354269B4; DE10147530A1; DE10147530B4; DE10010690A1; DE10010690B4; US7171985B2; DE102020119607A1; WO2009118030A1; US7607452B2; EP1801425A1; EP1130272A2

Designated contracting state (EPC)  
DE ES FR IT

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**EP 0678676 A2 19951025**; **EP 0678676 A3 19951213**; **EP 0678676 B1 19990107**; DE 4413657 C1 19951102; DE 59504713 D1 19990218; ES 2126170 T3 19990316; HU 217865 B 20000428; HU 9501113 D0 19950628; HU T71026 A 19951128; KR 100345533 B1 20021121; KR 950033121 A 19951222; TW 319813 B 19971111; US 5666994 A 19970916

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