

Title (en)  
SERIES-PARALLEL SELECTOR FOR STEERING AND IMPLEMENT

Publication  
**EP 0051603 B1 19860319 (EN)**

Application  
**EP 81900682 A 19800516**

Priority  
US 8000577 W 19800516

Abstract (en)  
[origin: WO8103364A1] Prior art interrupted series type load sensitive hydraulic systems have not had the capability of both providing full speed simultaneously vehicle cornering and implement correction while preventing the same when the implements are operating at a high pressure level, and preventing low torque motor stall. Herein, an input flow path (22) delivers pressurized fluid flow from a source (12) to a first priority (steering) circuit (14). A series flow path (24) delivers the output flow from the circuit (14) to an implement circuit (16). A parallel flow path (26) delivers a portion of the flow from the source (12) to the implement circuit (16). A valving structure (42) is in the series flow path (24). The valving structure (42) is opened in response to load pressure in the implement circuit (16) being at or below a selected value and is closed in response to the load pressure in the implement circuit being above said value. Generally, flow through the parallel flow path (26) is blocked when differential pressure in the steering circuit (14) is below a specified value. High speed turning and implement correction are provided at low pressures and are prevented when the implement is operating at high pressure level. Low torque motor stall is prevented. Utilization of vehicle horsepower is enhanced with the selectable series/parallel circuitry.

IPC 1-7  
**F15B 11/16**; **F15B 13/06**; **F16H 39/46**

IPC 8 full level  
**B62D 5/06** (2006.01); **F15B 11/16** (2006.01)

CPC (source: EP)  
**F15B 11/16** (2013.01); **F15B 2211/20553** (2013.01); **F15B 2211/30535** (2013.01); **F15B 2211/351** (2013.01); **F15B 2211/40515** (2013.01); **F15B 2211/428** (2013.01); **F15B 2211/45** (2013.01); **F15B 2211/6054** (2013.01); **F15B 2211/6055** (2013.01); **F15B 2211/6355** (2013.01); **F15B 2211/7058** (2013.01); **F15B 2211/781** (2013.01)

Designated contracting state (EPC)  
DE FR GB

DOCDB simple family (publication)  
**WO 8103364 A1 19811126**; DE 3071511 D1 19860424; EP 0051603 A1 19820519; EP 0051603 A4 19830406; EP 0051603 B1 19860319; JP S57500601 A 19820408

DOCDB simple family (application)  
**US 8000577 W 19800516**; DE 3071511 T 19800516; EP 81900682 A 19800516; JP 50096781 A 19800516