

Title (en)  
HYDRAULIC PRESSURE-SUPPLY AND CONTROL UNIT FOR A TRUCK-MOUNTED CONCRETE PUMP.

Title (de)  
HYDRAULISCHES DRUCKVERSORGUNGS- UND STEUERAGGREGAT FÜR EINE AUTOBETONPUMPE.

Title (fr)  
SYSTEME HYDRAULIQUE DE COMMANDE ET D'ALIMENTATION EN PRESSION POUR POMPE A BETON POUR CHANTIER AUTOROUTIER.

Publication  
**EP 0670946 A1 19950913 (DE)**

Application  
**EP 94926895 A 19940826**

Priority  
• DE 4330137 A 19930907  
• EP 9402836 W 19940826

Abstract (en)  
[origin: WO9507399A1] The invention concerns a hydraulic pressure-supply and control unit for a truck-mounted concrete pump (10) comprising a concrete-discharge rig (14), with hydraulic traverse and elevation drives, plus a hydraulic support device (30), both of which are connected in as hydraulic consumers supplied with hydraulic pressure by a joint pressure-supply unit fitted with an operating-mode selector valve (74) by means of which the pressure-supply unit can be connected either to a control valve system in the support device or to one in the discharge rig. Fitted as a hydraulic link element and also as a physical support for the control valves (68 to 72) of the discharge-rig control unit, for the mode-selector valve (74) and for switching elements in the pressure-supply unit (77) is a one-piece connector block (73) having a P-line (119), a T-line (132), a control line (166) and another return line (167, 168) which are designed as bores running in the direction of linkage. Coming off these bores are connection channels which open out in valve connection zones (163, 163', to 163<IV>) in an array of bores of proportional-control valves. Zones (102') in a load-signalling line (102) which are connected in series to each other by load-comparator valves (114) are each formed by a longitudinal bore (188, 188' to 188<IV>) starting, plugged, at the free end (164) of the connector block (73) plus cross-channels connecting the longitudinal bores with the output (117) of a load-comparator valve and with the input (116) of the adjacent load-comparator valve on the supply side.

IPC 1-7  
**E04G 21/04**

IPC 8 full level  
**E04G 21/04** (2006.01); **F15B 11/00** (2006.01); **F15B 11/16** (2006.01)

CPC (source: EP US)  
**E04G 21/04** (2013.01 - EP US); **E04G 21/0436** (2013.01 - EP US); **Y10T 137/87885** (2015.04 - EP US)

Citation (search report)  
See references of WO 9507399A1

Cited by  
WO2020157124A1; CN112610556A; CN102621993A; DE102019201182A1; CN113330174A; JP2022519053A; US11732488B2

Designated contracting state (EPC)  
DE ES FR GB IT

DOCDB simple family (publication)  
**DE 4330137 A1 19950309**; DE 59407096 D1 19981119; EP 0670946 A1 19950913; EP 0670946 B1 19981014; ES 2124426 T3 19990201; JP 3662022 B2 20050622; JP H08503755 A 19960423; KR 100431351 B1 20040818; US 5640850 A 19970624; WO 9507399 A1 19950316

DOCDB simple family (application)  
**DE 4330137 A 19930907**; DE 59407096 T 19940826; EP 9402836 W 19940826; EP 94926895 A 19940826; ES 94926895 T 19940826; JP 50842395 A 19940826; KR 19950701749 A 19950503; US 43218295 A 19950505