11 Publication number:

0 092 972

**A3** 

(12)

## **EUROPEAN PATENT APPLICATION**

(21) Application number: 83302247.8

(51) Int. Cl.3: F 15 B 18/00

22 Date of filing: 20.04.83

(30) Priority: 22.04.82 GB 8211628

43 Date of publication of application: 02.11.83 Bulletin 83/44

88) Date of deferred publication of search report: 16.05.84

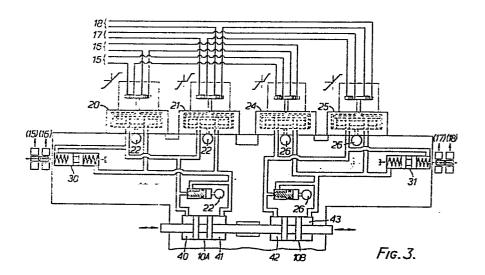
84 Designated Contracting States: DE FR GB IT 71) Applicant: FAIREY HYDRAULICS LIMITED Cranford Lane Heston Hounslow Middlesex, TW5 9NQ(GB)

(72) Inventor: Fuell, Frederick James
67 Minterne Avenue
Norwood Green Southall Middlesex(GB)

(74) Representative: Ashmead, Richard John et al, KILBURN & STRODE 30 John Street London, WC1N 2DD(GB)

[54] Improvements in or relating to hydraulic control system.

67) A hydraulic control system is disclosed comprising two actuators 10A, 10B operating in parallel or tandem each having a separate supply of hydraulic fluid and two electrohydraulic servo control valves 20, 21; 24, 25 interposed between each actuator and its respective hydraulic supply 22, 26 each control valve having two operating coils for the electrical operation thereof, the said coils being connected to four electrical control lanes 15, 16, 17, 18 in such a manner that each lane is connected to one coil of a control valve associated with one actuator and with one coil of a control valve associated with the other actuator. Feedback control of the valves is preferably provided to equalise hydraulic imbalance, the valves for each actuator having differing overlap characteristics such that the feedback signal may apply selectively to the valves of one or other actuator.





## **EUROPEAN SEARCH REPORT**

Application number

EP 83 30 2247

DOCUMENTS CONSIDERED TO BE RELEVANT					
Category	Citation of document with indication, where appropria of relevant passages		opriate,	iate, Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 3)
A	GB-A-2 082 799 BROTHERS [LONDON * Page 1, lir lines 38-40; pag figure 1 *	N] LTD.) nes 25-55; p	page 2, 51-58;	1,2	F 15 B 18/00
Α	GB-A-1 029 527 SERVOCONTROLS) * Page 7, line 1 3; figure 9 *	•	3, line	1	
A	US-A-3 915 427 * Column 4, li 5, lines 30-40;	ines 32-33;	column	1	
A	GB-A- 940 942 SHOE CO.) * Page 3, lin 1,2 *			2	TECHNICAL FIELDS SEARCHED (Int. CI. 3)  F 15 B
		-			B 64 C
	·				
	The present search report has b	peen drawn up for all clai	ms		
********	Place of search THE HAGUE	Date of completio	n of the search 1984	FRANK	Examiner S N.M.
Y: pa do A: teo O: no	CATEGORY OF CITED DOCL rticularly relevant if taken alone rticularly relevant if combined w cument of the same category chnological background n-written disclosure ermediate document	rith another	E: earlier pater after the filir D: document c L: document c	nt document, t ng date ited in the app ited for other i	ying the invention out published on, or dication reasons nt family, corresponding