

(19)



Europäisches Patentamt  
European Patent Office  
Office européen des brevets

(11) Publication number:

**0 238 356**  
**A3**

(12)

# **EUROPEAN PATENT APPLICATION**

(21) Application number: 87302438.4

(51) Int. Cl.4: **B66D 1/56 , B66D 1/44**

(22) Date of filing: 20.03.87

(30) Priority: 20.03.86 GB 8606940  
31.10.86 GB 8626045

(43) Date of publication of application:  
23.09.87 Bulletin 87/39

(84) Designated Contracting States:  
**DE FR GB IT NL**

(88) Date of deferred publication of the search report:  
17.01.90 Bulletin 90/03

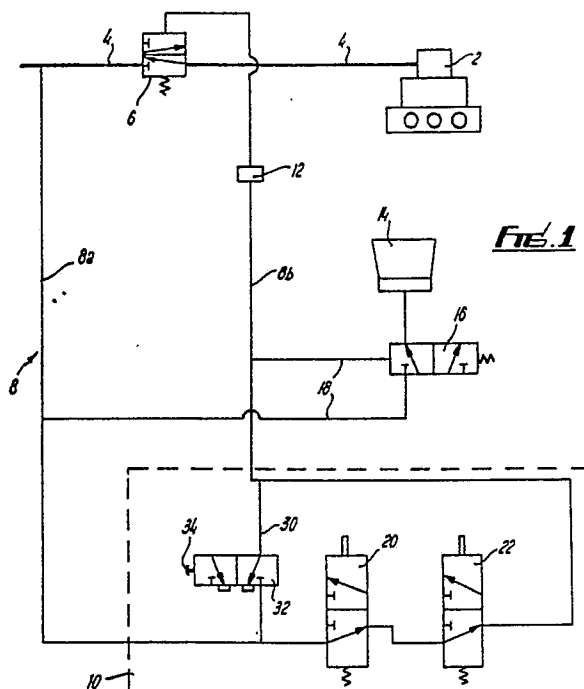
(71) Applicant: **Monyana Engineering Services**  
**Unit 5 The Meadows**  
**Oldmeldrum Aberdeenshire AB5 0GA**  
**Scotland(GB)**

(72) Inventor: **Rogerson, James**  
**1 Henderson Crescent**  
**Kintore Aberdeenshire Scotland(GB)**

(74) Representative: **Pattullo, Norman et al**  
**Ian G. Murgitroyd and Company Mitchell**  
**House 333 Bath Street**  
**Glasgow G2 4ER Scotland(GB)**

(54) **Control system for a fluid actuated motor.**

(57) A control system for a fluid actuated motor (2), such as that driving a winch, said system comprising a conduit (4) for feeding fluid to the motor (2), a valve (6) actuatable to open and close the conduit (4), and means for actuating the valve (6) to open or close the conduit (4) when a predetermined condition, such as an upper or a lower limit of a load, is achieved through operation of the motor (2). The actuating means may comprise a second conduit (8) for feeding fluid to the valve (6) and means for closing the second conduit when said predetermined condition is achieved; the closure of the second conduit results in actuation of the first valve (6) to close the main conduit (4).



**EP 0 238 356 A3**



DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
X	US-A-4 448 394 (LE MOINE) * Abstract; figures; column 2, line 65 - column 3, line 40 *	1	B 66 D 1/56 B 66 D 1/44
A	---	2	
X	EP-A-0 101 743 (ENDO KOGYO CO. LTD) * Abstract; page 5, line 25 - page 9, line 19; figures *	1,3	
A	---	2,4	
X	FR-A-2 140 477 (ORENSTEIN & KOPPEL AG) * Page 2, line 12 - page 3, line 12; figure 1 *	1	
A	---	2	
X	FR-A-2 096 496 (BOWMAKER (PLANT) LTD) * Page 6, line 12 - page 7, line 4; page 12, lines 3-30; figures *	1	
A	---	2	
A	US-A-2 986 884 (SMITH) * Column 1, line 69 - column 2, line 15; column 3, lines 1-7,22-58; figure *	1,2	TECHNICAL FIELDS SEARCHED (Int. Cl.4)
A	GB-A-2 074 970 (RANSOMES & RAPIER LTD) * Abstract; figures *	1	B 66 D F 16 H F 04 B F 03 C
A	DE-A-2 028 446 (S.P.A. EDILMAC) -----	1	
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 11-10-1989	Examiner GUTHMULLER J.A.H.
<b>CATEGORY OF CITED DOCUMENTS</b>			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ..... & : member of the same patent family, corresponding document	