

(12) **EUROPEAN PATENT APPLICATION**

(21) Application number: 82302879.0

(51) Int. Cl.³: **F 04 B 43/06**
F 01 L 25/06

(22) Date of filing: 03.06.82

(30) Priority: 06.06.81 GB 8117397
05.04.82 GB 8210093

(43) Date of publication of application:
15.12.82 Bulletin 82/50

(88) Date of deferred publication of search report: 09.02.83

(84) Designated Contracting States:
AT BE CH DE FR GB IT LI LU NL SE

(71) Applicant: **WILLIAM R. SELWOOD LIMITED**
Bournemouth Road Chandler's Ford
Eastleigh Hampshire SO5 3ZL(GB)

(72) Inventor: **Huddle, Francis Godfrey**
41 Hillcrest Avenue
Chandler's Ford Eastleigh Hampshire(GB)

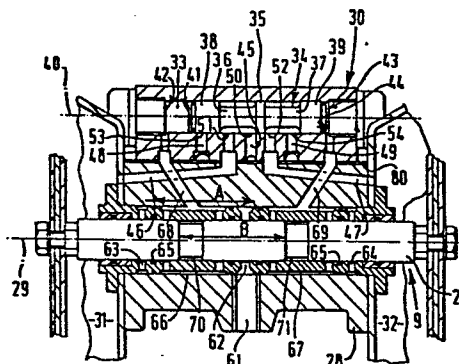
(72) Inventor: **Rowe, Gary Arthur**
42 Lawn Road
Eastleigh Hampshire(GB)

(74) Representative: **Lewis, Samuel Hewitt et al,**
FORRESTER & BOEHMERT Widenmayerstrasse 41
D-8000 München 22(DE)

(54) A pump.

(57) A double diaphragm pump comprises a pair of chambers (14, 15), each with a plate and diaphragm arrangement (23, 24 and 25, 26) which forms parts of the boundaries thereof. A pressurised fluid such as air is directed alternately to respective spaces (31, 32) outside the chambers and adjacent the diaphragms by means of an actuating means (30) which comprises a spool (34) in a spool chamber (33). A control means (9) which comprises a rod (27) extending between the plates (23 and 25) controls operation of the actuating means. The control means which is movable with the diaphragms directs fluid alternately to the ends of the spool chamber and prevents supply of fluid to an end of the spool chamber opposite to that end to which fluid is directed at a selected moment.

FIG 2





DOCUMENTS CONSIDERED TO BE RELEVANT			EP 82302879.0
Category	Citation of document with indication where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. ³)
X	<p><u>US - A - 3 849 033</u> (SCHALL)</p> <p>* Column 3, line 37 - column 6, line 9; column 8, line 41 - column 9, line 2; fig. 1,2,7,8 *</p> <p>--</p>	1,2,6,7	<p>F 04 B 43/06</p> <p>F 01 L 25/06</p>
X	<p><u>US - A - 4 242 941</u> (WILDEN)</p> <p>* Column 3; column 4, lines 1-63; fig. 1-3 *</p> <p>--</p>	1,3,6,7	
X	<p><u>US - A - 3 791 768</u> (WANNER)</p> <p>* Column 4, lines 11-54; fig. 5 *</p> <p>--</p>	1,4,5	
A	<p><u>EP - A1 - 0 018 143</u> (WILDEN PUMP)</p> <p>----</p>		<p>TECHNICAL FIELDS SEARCHED (Int. Cl. ³)</p> <p>F 04 B 43/00</p> <p>F 01 L 25/00</p> <p>F 01 L 21/00</p>
The present search report has been drawn up for all claims			
Place of search VIENNA		Date of completion of the search 30-11-1982	Examiner WITTMANN
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone</p> <p>Y : particularly relevant if combined with another document of the same category</p> <p>A : technological background</p> <p>O : non-written disclosure</p> <p>P : intermediate document</p> <p>T : theory or principle underlying the invention</p> <p>E : earlier patent document, but published on, or after the filing date</p> <p>D : document cited in the application</p> <p>L : document cited for other reasons</p> <p>& : member of the same patent family, corresponding document</p>			