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### (54) Improvements in valves

(57) A valve for use in a pulper dirt trap comprises a plate or flap (8) which is pivotally mounted on a valve housing (1), a hydraulic or pneumatic ram (16) for moving the plate (8) between open and closed positions, a seal (11) in the form of a beading of V-shaped cross-

section located between the housing (1) and the plate (8) in the closed position of the valve, a retaining hook (22) for releasably retaining the plate (8) in the closed position and a hydraulic or pneumatic ram (26) for operating the retaining hook (22).

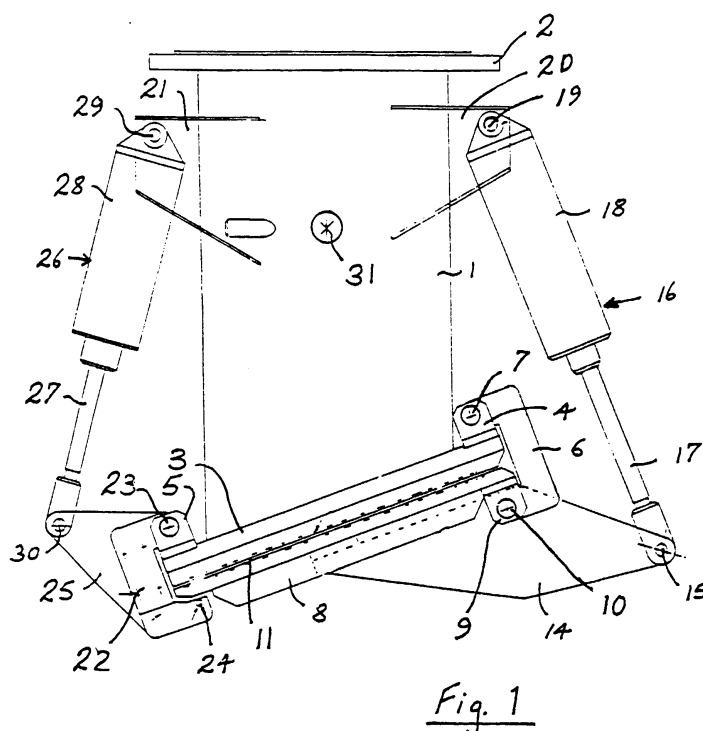


Fig. 1

EP 0 828 025 A3



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# EUROPEAN SEARCH REPORT

Application Number  
EP 97 30 6597

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.6)
Y	GB 1 024 958 A (PENNSALT CHEMICALS COMPANY) 6 April 1966	1-3	D21B1/34
A	* page 2, line 8 - line 116; figures * ---	4-7	F16K27/07
Y	US 4 838 301 A (LAMORT JEAN-PIERRE) 13 June 1989	1-3	F16K1/20
A	* abstract; figures * * column 1, line 9 - line 41 * * column 2, line 51 - column 4, line 35 * ---	9	
A	DE 965 806 C (VOITH J M GMBH) 19 June 1957 * figure 1 * * page 3, line 1 - line 9 * * page 3, line 49 - line 71 * ---	1	
A	US 3 310 242 A (PERKINS JOSEPH K ET AL) 21 March 1967 * column 2, line 57 - line 68; figure 1 * -----	10	
			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			D21B F16K
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
THE HAGUE		17 March 1999	Helpiö, T.
<p>CATEGORY OF CITED DOCUMENTS</p> <p>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</p> <p>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  .....  &amp; : member of the same patent family, corresponding document</p>			

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**ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.**

EP 97 30 6597

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The members are as contained in the European Patent Office EDP file on  
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17-03-1999

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
GB 1024958 A		NONE	
US 4838301 A	13-06-1989	FR 2610384 A DE 3864413 A EP 0277866 A FI 880426 A,B, JP 63196788 A	05-08-1988 02-10-1991 10-08-1988 31-07-1988 15-08-1988
DE 965806 C		NONE	
US 3310242 A	21-03-1967	NONE	