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54 Improvements relating to lifting devices.

57 A lifting device comprises a rotary pulley assembly (16) over which a link chain (12) passes. The pulley assembly (16) has a peripheral section having recesses in which the link chain fits, to establish a drive connection between the link chain (12) and pulley assembly (16). The pulley assembly (16) is spring loaded and is movable against the spring loading between two positions namely a first position in which the pulley assembly (16) can rotate about its axis, and a second position in which a locking means prevents it from turning about its axis. The pulley assembly (16) moves to the second position when the chain (12) is attached to a load and the pulley is raised to lift the load. The locking is achieved by means of a sprocket wheel (68) on the pulley assembly (16) engaging a locking member (36). The sprocket wheel teeth pitching is less than the pitching of the recesses for the link chain so that the device can be fine tune positioned in relation to the centre of gravity of the load.

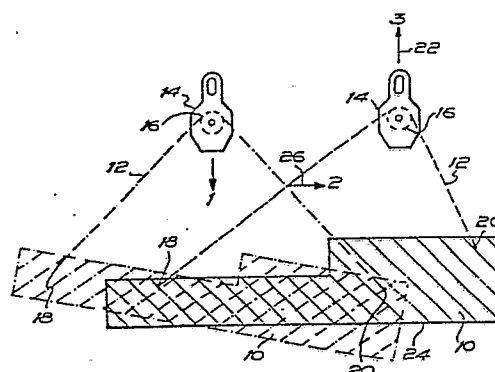


FIG. 1



EP 88 20 2215

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)
D,Y	GB-A-1 389 151 (PARSONS CHAIN CO.) * Whole document *	1	B 66 C 1/12
Y	US-A-3 582 125 (COLLINS) * Column 2, lines 30-41,48-75 *	1	
A	US-A-2 356 147 (CALDWELL) * Page 1, left-hand column, lines 44-55; right-hand column, lines 1-43; page 2, right-hand column, lines 15-32 *	1-3	
A	US-A-2 629 625 (PHILIPS) * Whole document *	5	
A	FR-A-1 156 752 (ZIRNHELD)		
A	US-A-1 353 569 (DILLON)		
			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
			B 66 C
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 13-04-1989	Examiner VAN DEN BERGHE E.J.J.
CATEGORY OF CITED DOCUMENTS 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			