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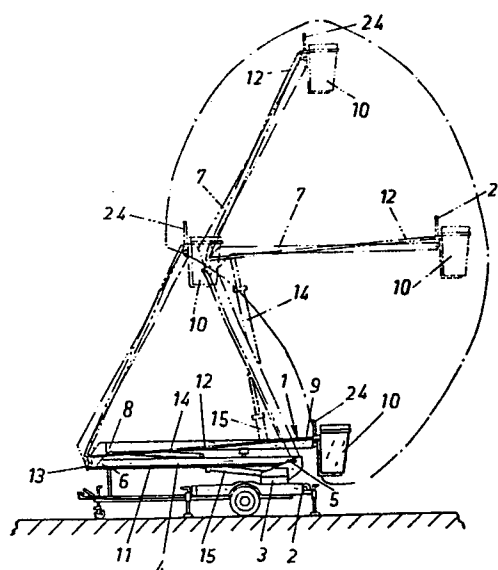
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54 **A safety device in hydraulically operated working-platform elevators.**

57 A safety device in working-platform elevators and the like. The elevator comprises two interconnected booms (4 and 7), the lower one (4) of which is mounted to a chassis-mounted stand (3). The working platform or personnel carrier (10) which is connected to the upper boom, is maintained in position by upper and lower parallel arms (11 and 12). These arms are interconnected by a link (13). The upper boom movements relative to the lower boom is controlled by a hydraulic piston-and-cylinder unit (15).

The device is automatically activated upon occurrence of a predetermined angle between the upper boom (7) of the elevator and ground level or is manually operated via controls from the platform. The device comprises a linkage system comprising four link arms (17, 18, 19, 20) interconnecting the hydraulic piston-and-cylinder unit valve with a segment (21). The latter is actuated either by an abutment member on the upper boom or by an actuating means operated from the platform. Movement of the segment resulting from such actuation is transferred via the linkage system to the valve, and the lower boom is lowered. The safety device ensures that the elevator booms cannot assume positions beyond the intended operational range of the elevator and that electric faults and the like cannot prevent lowering of the platform.

Fig.1





European Patent
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EUROPEAN SEARCH REPORT

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EP 81 85 0151.2

DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int. Cl. ³)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
X	<u>GB - A - 1 458 506</u> (SIMON ENGINEERING DUDLEY LTD.) * claim 1; fig. 1, 2 * ---	1	B 66 F 17/00 B 66 F 11/04
Y	<u>DE - A - 1 756 741</u> (KLÖCKNER-HUMBOLDT-DEUTZ AG) * claim 1 * ---	1	
Y	<u>DE - U - 1 929 692</u> (FRITZ METZ KG) * claims; page 2, lines 19 to 22 * ---	1	
Y	<u>US - A - 4 081 055</u> (JOHNSON) * column 1, lines 52 to 68 * ---	1	TECHNICAL FIELDS SEARCHED (Int.Cl. ³)
A	<u>GB - A - 751 599</u> (THOMAS ADSHEAD AND SON LTD.) * fig. 1 * ---	1	B 66 F 11/00 B 66 F 17/00
A	<u>GB - A - 1 331 656</u> (SIMON ENGINEERING DUDLEY LTD.) * claim 1 * -----	1	
			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
<input checked="" type="checkbox"/> The present search report has been drawn up for all claims			&: member of the same patent family, corresponding document
Place of search		Date of completion of the search	Examiner
Berlin		19-02-1982	KANAL