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(54) Web slitting machine

(57) A web slitting machine (10) for cutting a web or roll of material includes an upper carriage assembly (16) joined to a lower blade holder assembly (18) by a selectively removable guide key (38) which is milled to provide a predetermined cant angle for the blade (20). The blade (20) is lowered into position by a piston (54, 58) which is rectangular and includes a torsion-resisting sleeve (60a, 60b) to prevent rotation of the piston about its vertical axis. A pneumatic control provides a plurality of control modes whereby the blade (20) may be raised and lowered with or without locking the upper carriage assembly (16) to its transverse bar (14) and vice-versa. A unique side shift adjustment is provided whereby the blade (20) may be shifted to a half-stroke position and the upper carriage (16) locked when the blade is positioned against a lower knife (22). This ensures that the pressure of the blade (20) against the knife (22) is the pressure exerted at the mid point of the stroke. A parallelogram linkage (210, 212) biased by a spring (224) can provide a shock absorber for maintaining blade/knife contact in the presence of webs moving at high speed.

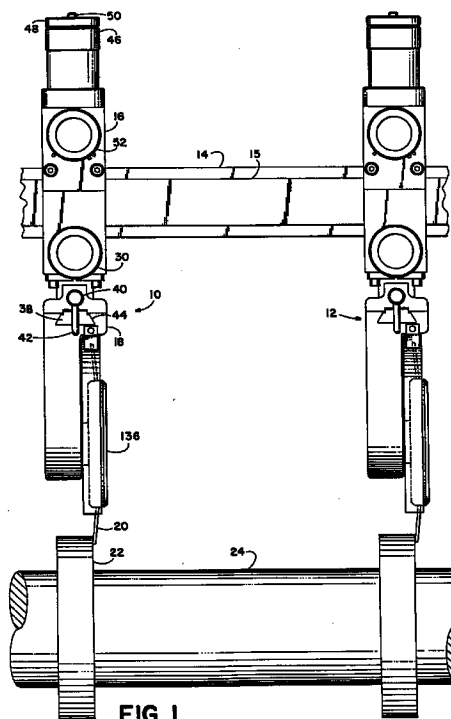


FIG. 1

EP 0 655 302 A3



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EUROPEAN SEARCH REPORT

Application Number
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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)
X	DE-A-34 22 570 (BILLSTEIN SPEZIALFAB WILHELM) 19 December 1985	1	B26D1/24
A	* page 12, line 12 - line 30 *	6	B26D5/04
	* page 13, line 2 - page 28; figures *		B26D7/26

X	FR-A-2 206 696 (JAGENBERG-WERKE AG) 7 June 1974	1	
	* claims 1,2,4; figure *		

A	US-A-3 983 771 (BONADDIO ROBERT M) 5 October 1976	1	
	* column 2, line 58 - column 3, line 1; figures 1,4 *		

A	GB-A-239 715 (WALKER)	1,2	
	* page 2, line 93 - line 108; figures *		

D,A	US-A-3 380 330 (GILMORE WILLIAM J)	3-5,7	
	* column 5, line 20 - column 6, line 15; figures *		

A	DE-B-11 56 635 (KARL RUD.DIENES FABRIKATIONSGESELLSCHAFT)	7-9	TECHNICAL FIELDS SEARCHED (Int.Cl.6)
	* column 2, line 26 - line 48; figure 1 *		B26D

D,A	US-A-3 143 024 (MARKOWSKI)	3-5,7-9	
	* column 5, line 6 - line 55; figure 2 *		

The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
THE HAGUE		31 October 1996	Barrow, 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			

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