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54 **Universal bending machine and respective method for bending.**

57 An automatic multiplane bending machine for tube or wire stock from feeding reel (A), comprising in working line: stock straightening means (B), stock drawing or advancing means (C), stock bending means (D), stock cutting means (E) and electronic controlling means to control advancing and bending said stock material (t) to realize multiplane bents (S), wherein said bending means (D) are mounted and rotating around the stock to be bent (r) to vary the position of the bending plane.

With this system is avoided the drawback to cut the stock material before bending when bending in different planes is required.

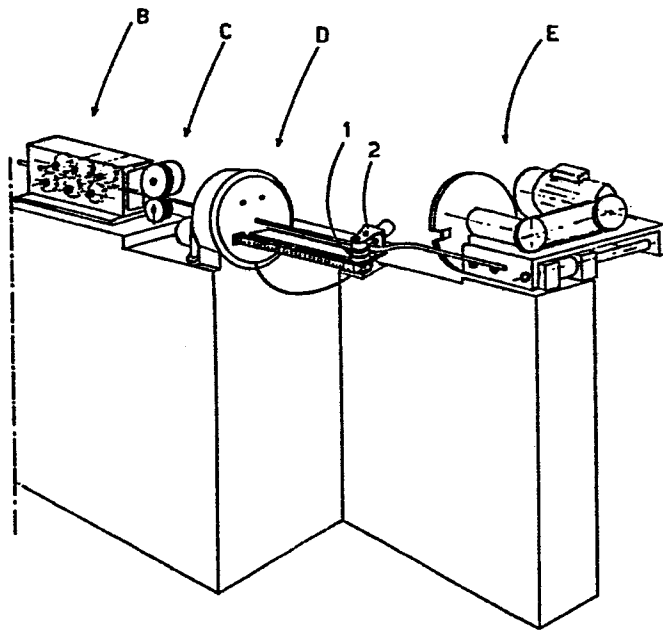


FIG.1



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)
Y	US-A-3 493 016 (OTT) * Column 3, line 44 - column 5, line 11 *	1-3,6-8	B 21 D 7/022 B 21 D 7/12
A		4,5	
Y	US-A-4 161 110 (RITTER et al.) * Whole document *	1-3,6-8	
A	US-A-3 373 587 (SHUBIN) * Column 2, lines 51-53; figures 1,2 *	1	
A	US-A-4 052 878 (CONNELLY) * Figures 5-9; column 4, line 29 - column 5, line 6 *	1	
			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
			B 21 D B 62 D
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 05-08-1987	ASH Examiner
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	