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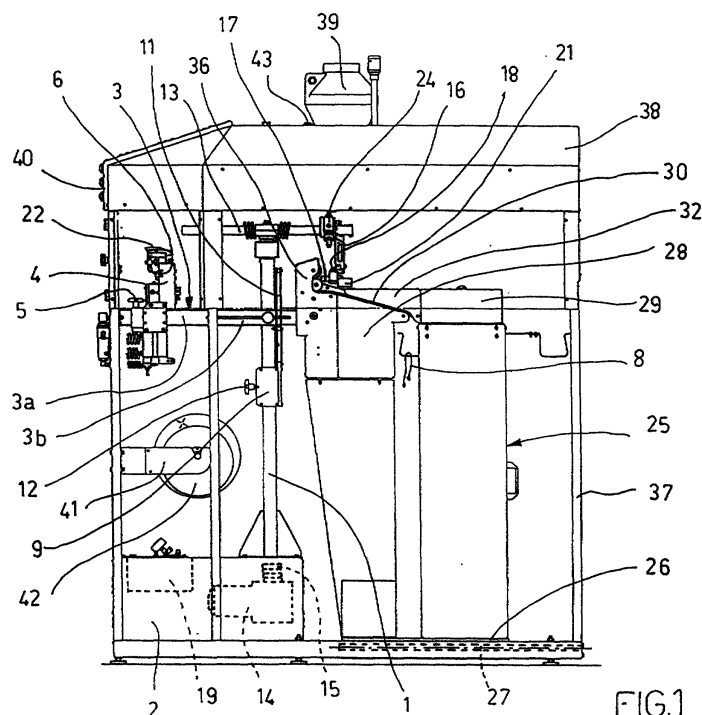
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(54) **Machine for cutting and tipping shoelaces automatically with continuous rotating functioning**

(57) The invention falls into the category of machines designed to tip and cut shoelaces. The invention has a fixed vertical column (1), around which rotates a continuous rotary head (16) supporting a cord guide (17)

and an acetone spray nozzle (18). After carrying out the tipping and cuffing operation in a mould (4), the laces (8) are carried to a storage station (25), composed of a feeder (28) and a collection device (29), where the laces are grouped in bunches (fig. 1).



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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.7)
A	US 2 740 156 A (ALBERT SPACH ANDRE) 3 April 1956 (1956-04-03) * column 2, line 10 - column 4, line 58; figures 1-3 *	1	A43D99/00 A43C9/00 A43C9/04
A	GB 514 220 A (ANDOR NEY;EMERICH MARKUS) 2 November 1939 (1939-11-02) * page 1, line 99 - page 3, line 16; figures 1-4 *	1	
A	DE 367 407 C (GUSTAV MUELLER & CO) 20 January 1923 (1923-01-20) * the whole document *	1	
A	DE 501 926 C (WILHELM MOESCHET) 7 July 1930 (1930-07-07) * page 1, line 41 - page 2, line 89; figures 1-5 *	1	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			A43D A43C
Place of search		Date of completion of the search	Examiner
THE HAGUE		31 May 2002	Cianci, S
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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**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 00 11 0880

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31-05-2002

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 2740156	A	03-04-1956	NONE	
GB 514220	A	02-11-1939	NONE	
DE 367407	C	20-01-1923	NONE	
DE 501926	C	07-07-1930	NONE	

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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82