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(54) **A spindle for an abrasive band strip and an apparatus for replacing it with a new one**

(57) The invention relates to a round-surfaced, elongated spindle (23) comprising in its end an axial slot (24) for receiving a double-folded abrasive band (2'). For automating the replacement of this abrasive band the surface (26), with a circular cross-section, of the spindle (23) comprises a level surface (25) for directing the slot (24) when the level surface (25) meets the guiding surface during the rotation of the spindle (23) along the external guiding surface, stopping the rotation movement of the spindle.

In addition, an apparatus is described for automated double-folding the abrasive band, cut to desired length, and placed with the abrasive surface outwards, and for inserting it into the slot (24) of the said spindle (23).

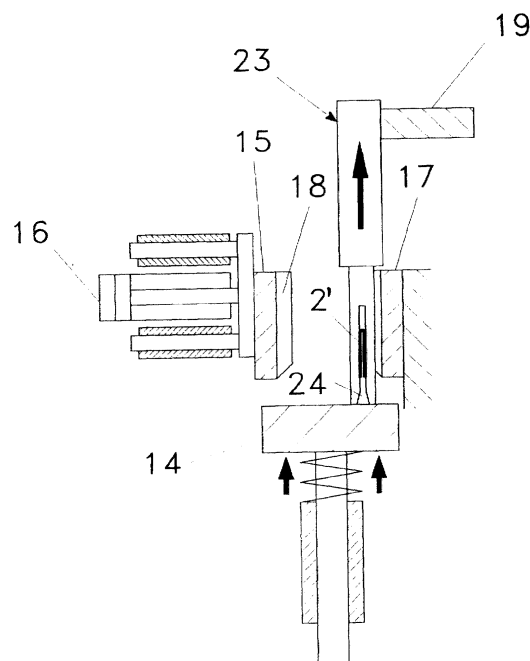


Fig. 5d

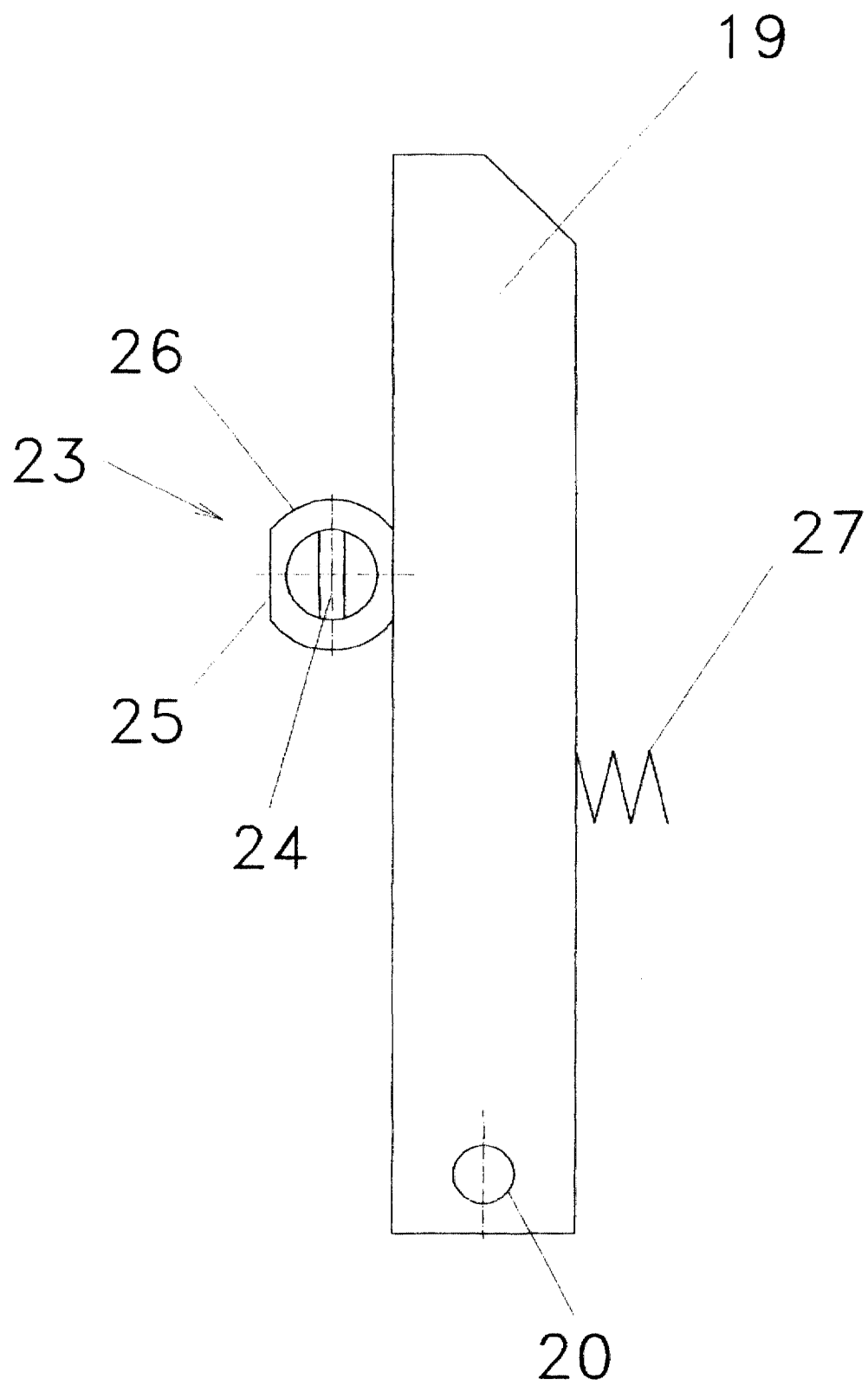


Fig. 6



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EUROPEAN SEARCH REPORT

Application Number
EP 99 66 0014

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	FR 1 039 994 A (MORAND ALFRED) 12 October 1953 (1953-10-12) * column 1, line 21-30 * * column 2, line 38 - column 3, line 33 * * column 4, line 24-36 * * figures 7,8 * ---	1-3	B24B33/08 B24B45/00 B24D9/04
A	US 3 877 185 A (WELLS EDMUND F) 15 April 1975 (1975-04-15) * column 2, line 19-46; figures 1-6 * ---	1-4	
A	US 2 749 680 A (ST PALLEY ZOLTAN O) 12 June 1956 (1956-06-12) * column 1, line 53 - column 2, line 64; figures 2-6 * ---	1-4	
A	US 4 536 994 A (KREBS WILLIAM T) 27 August 1985 (1985-08-27) * column 2, line 46 - column 3, line 26; figures 1,2 * -----	1-4	
			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			B24B B24D
The present search report has been drawn up for all claims			
Place of search MUNICH		Date of completion of the search 6 June 2002	Examiner Koller, 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
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EP 99 66 0014

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
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06-06-2002

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