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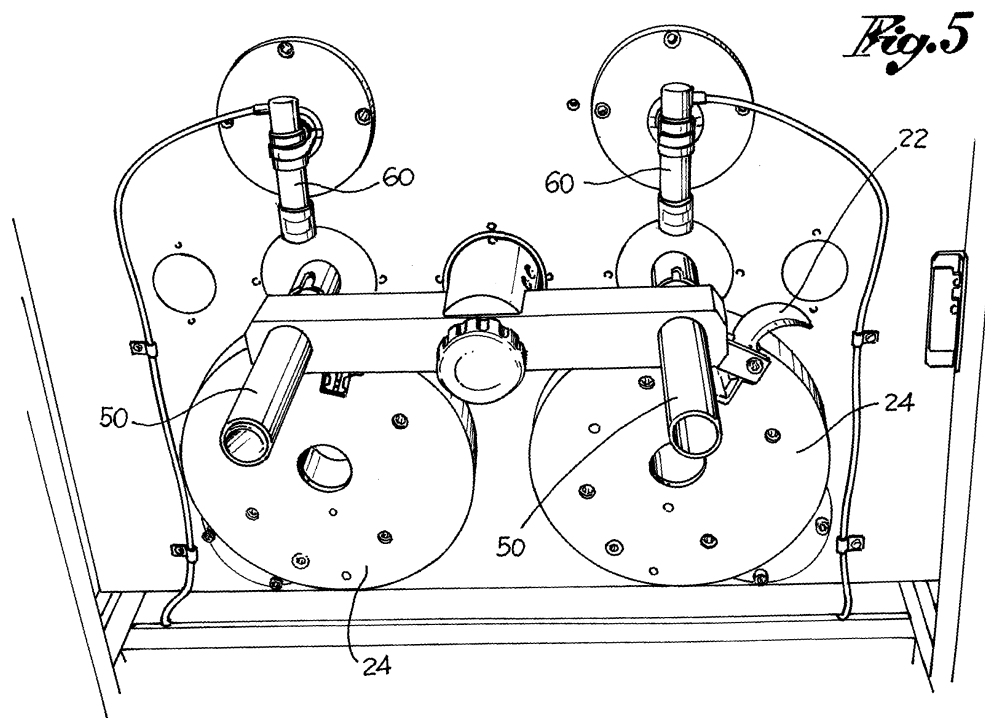
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(30) Priority: **24.02.2006 WOPCT/IT2006/000105**

(54) **Cutting device of an apparatus for producing synthetic caps**

(57) The object of the present invention is a cutting device associable to a production device for producing caps of synthetic material. The production device produces a cord of cylindrical elements, which will form the caps, connected by a tang. The cutting device comprises cutting means suitable for cutting said tang. Said cutting

means comprise a rotating blade (22), mounted on a cutting drum (24). Moreover, there are provided advance means, continuous or intermittent, for advancing the cord and moving the tang to a position suitable for being cut. In such position, the solid element to be cut is stationary and the blade (22) cuts the tang, separating the solid element from the cord and forming a semi-finished cap.





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EUROPEAN SEARCH REPORT

Application Number
EP 06 12 6294

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	FR 1 276 772 A (GARRET) 24 November 1961 (1961-11-24)	1-12,22, 24,25	INV. B26D1/28
Y	* page 2, left-hand column, paragraph 9 - right-hand column, paragraph 2; figures *	13-15	B26D5/32 B26D7/06
D,X	IT 1 326 870 B1 (GASPARRI) 18 February 2005 (2005-02-18)	1,28-30	
Y	* page 7, line 3 - line 4; figures *	31,32	
X	US 4 192 207 A (BICKFORD DAVID E [US] ET AL) 11 March 1980 (1980-03-11)	1,8,16, 17,19	
Y	* column 3, line 55 - column 4, line 40; figure 3 *		
Y	DE 83 22 171 U1 (ALPMA ALPENLAND MASCHINENBAU HAIN & CO KG, 8093 ROTT, DE) 30 April 1986 (1986-04-30)	13-15	
Y	* figures *		
Y	DE 552 629 C (BERKEL PATENT NV) 15 June 1932 (1932-06-15)	13-15	
	* page 1, line 25 - line 33; figures *		
X	FR 2 673 879 A1 (FAIREX [FR]) 18 September 1992 (1992-09-18)	1,23	
	* abstract; figures *		
X	GB 904 755 A (REIFENHAUSER GMBH) 29 August 1962 (1962-08-29)	1,23,26, 27	
Y	* page 1, line 30 - line 60; figures *	31,32	
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 11 September 2007	Examiner Vaglianti, Giovanni
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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EPO FORM 1503 03/82 (P04/C01)

**CLAIMS INCURRING FEES**

The present European patent application comprised at the time of filing more than ten claims.

- ☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s):
- ☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

- ☒ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- ☐ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.
- ☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
- ☐ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:



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**LACK OF UNITY OF INVENTION
SHEET B**

Application Number

EP 06 12 6294

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1-15, 22-32

A cutting device comprising a pair of spiral pushing tracks
acting on a single cord

2. claims: 1, 8, 16-21

A cutting device comprising advance means suitable for
switching from an engaged configuration to a disengaged
configuration.

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 06 12 6294

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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11-09-2007

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