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(54) **Device for carrying out creases**

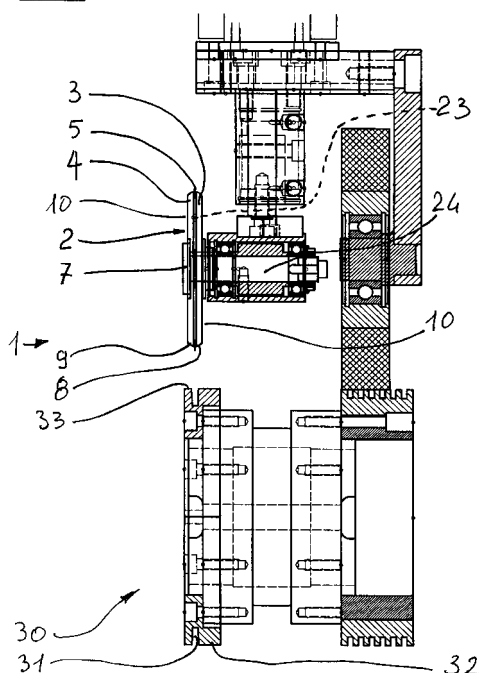
(57) A device for carrying out creases fit for a machine (M) for working a cardboard sheet or similar and comprising a tool (2) of a disc shape.

The tool (2) comprises at least a side disc means (3, 4) and a circular blade means (5) fixed protruding to the

at least side disc means (3, 4).

The peripheral edges of said at least a side disc means (3, 4) and of a circular blade means (5) being fit to carry out a crease with cuts on the sheet matching by pressure a face thereof.

FIG.3





EUROPEAN SEARCH REPORT

Application Number
EP 08 15 5932

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	DE 40 06 611 A1 (GERHARDT JOERGEN [DK]; GROENBJERG IB [DK]) 5 September 1991 (1991-09-05)	1-4,7-9	INV. B31B1/25
Y	* column 1, line 58 - column 2, line 42; figures 1,2 *	5,6, 10-14	
Y	----- US 3 270 628 A (CLEM EVERETT W) 6 September 1966 (1966-09-06) * figures 9,10 *	5,6	
Y	----- DE 520 629 C (PAUL KUNZE) 12 March 1931 (1931-03-12) * page 2, line 122 - page 3, line 8; figures 3-5 *	10-13	
Y	----- US 5 549 539 A (RAUTENBERG HORST [DE]) 27 August 1996 (1996-08-27) * figure 1 *	10-13	
Y	----- US 4 936 818 A (HOLOHAN JR JOSEPH [US]) 26 June 1990 (1990-06-26) * column 4, line 45 - line 47; figure 9 *	10-13	TECHNICAL FIELDS SEARCHED (IPC)
Y	----- US 5 123 891 A (NIERADKA ZIGMUNT [US] ET AL) 23 June 1992 (1992-06-23) * figure 1 *	10-13	B31B B31F B29C
Y	----- US 4 417 883 A (GRANGER ROBERT L [US] ET AL) 29 November 1983 (1983-11-29) * column 3, line 8 - line 25; figures 1-6 *	14	
Y	----- DE 12 99 514 B (WINDMOELLER & HOELSCHER) 17 July 1969 (1969-07-17) * column 3, line 65 - column 4, line 11; figures 1,2 *	14	
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 29 June 2011	Examiner Sundqvist, Stefan
<p>CATEGORY OF CITED DOCUMENTS</p> <p>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</p> <p>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</p>			

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CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing claims for which payment was due.

☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due 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 those claims for which no payment was due.

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:

☐ The present supplementary 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 (Rule 164 (1) EPC).



LACK OF UNITY OF INVENTION
SHEET B

Application Number
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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: 1-9

Creasing tool of creasing device.

2. claims: 10-14

Matching means of creasing device.

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

EP 08 15 5932

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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29-06-2011

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EPO FORM P0459

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