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(54) A die cutting machine

(57) A die cutting machine (10) for cutting and/or creasing blanks comprises a cutter die (18) having an operative surface provided with a pattern of cutting and/or creasing blades therein, a pair of juxtaposed impression rollers (23,24) defining a gap therebetween and

conveyor means (15) for conveying the cutter die (18) back and forth from one side of the impression rollers (23,24) to the other, through the gap defined therebetween. The conveyor means (15) extends continuously from one side of the impression rollers to the other and the cutter die (18) is fixedly mounted thereto.

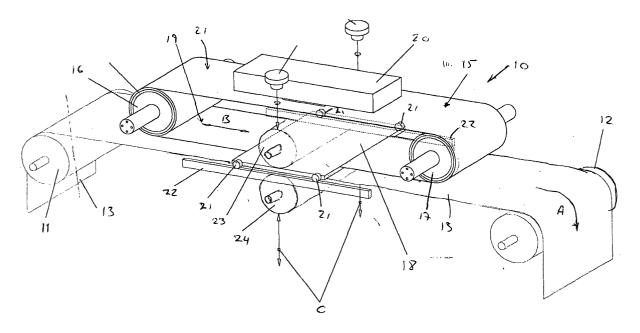


Fig. 1



EUROPEAN SEARCH REPORT

Application Number

EP 03 25 3543

Category	Citation of document with i of relevant pass	ndication, where appropriate, sages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.CI.7)
X	figures *		1-3	B26F1/42
Α	· · · · · · · · · · · · · · · · · · ·		14-20	
X	US 2 795 275 A (S.S 11 June 1957 (1957- * column 3, line 10 figures 1,3,4 *		1	
Α	11gures 1,5,4 +		14-20	
A	FR 2 578 476 A (GIL 12 September 1986 (* figures 6-8 *		14-20	
A	US 6 220 136 B1 (BE 24 April 2001 (2001 * column 7, line 51 figures 5,6 *		14-20	TECHNICAL FIELDS SEARCHED (Int.Cl.7)
Α .	US 3 213 737 A (WRI 26 October 1965 (19		14-20	B26F
A	figures 2,8,10 *	6-01) - column 3, line 30;	14-20	
	The present search report has	Deter drawn up for all claims Date of completion of the search	1	Examiner
	MUNICH	15 December 2003	3 Can	elas, R.F.
X : parti Y : parti docu	ATEGORY OF CITED DOCUMENTS cularly relevant if taken alone cularly relevant if combined with anot inent of the same category nological background	L : document cited	ocument, but publi ate I in the application for other reasons	nvention shed on, or



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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:
1-3,14-20
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 03 25 3543

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: 1-3

(Group A) claims 2-3 specify the features of the die and solve the problem of defining the type of die to be used with the machine.

2. Claim: 4

(Group B) refers to sheet feeder and stacking means to solve the problem of input and output of the sheets.

3. Claims: 5-7

(Group C) refers to means to solve the problem of feeding a continuous web to the machine.

4. Claim: 8

5. Claims: 9-12

(Group E) refers to a general type of conveyor means of the type of belt, chain or cable, defining means to solve the problem of defining the conveyor means.

6. Claim: 13

(Group F) refers to means to solve the problem of the return of the die (without lowering one of the rollers)

7. Claims: 14-20

(Group G) refers o a particular type of die.

8. Claims: 21,22

(Group H) refers to an arrangement with several machines to solve the problem of performing successive operations.



LACK OF UNITY OF INVENTION SHEET B

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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:

9. Claim : 23

(Group H) refers to a method solving the problem of operating the machine.

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

EP 03 25 3543

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 The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

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