

EUROPEAN PATENT APPLICATION

Application number: **87304116.4**

Int. Cl.4: **B26F 1/28**

Date of filing: **08.05.87**

Priority: **08.05.86 GB 8611256**

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Date of publication of application:
11.11.87 Bulletin 87/46

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Designated Contracting States:
BE DE FR GB IT NL

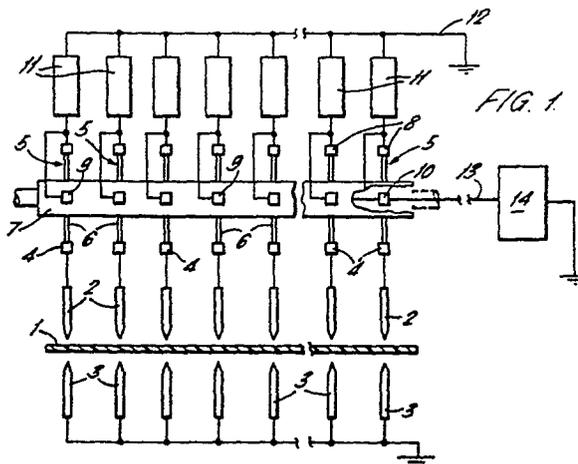
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Date of deferred publication of the search report:
07.02.90 Bulletin 90/06

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Film perforating apparatus.

The invention is concerned with an apparatus and a process for perforating synthetic plastics film (1) for example polyethylene or polypropylene, with an electrical spark discharge set up between a set of first electrodes (2) which may be pointed rods and second electrodes (3) which also may be complementary pointed rods or a single electrode which may be an electrically conducting guide plate, vane or roller. The film (1) is drawn between the first and second electrodes (2, 3). Each first electrode (2) is supplied with high voltage sufficient to cause the spark discharge from a separate charged capacitor (11) whereby each first electrode (2) is electrically isolated from the others and thus a discharge from one first electrode (2) does not prevent the formation of discharges from the other electrodes (2). The charging and discharge of the capacitors (11) is controlled by a series of coupled switching units (5).



EP 0 245 112 A3



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.4)	
X	CA-A-1 122 266 (CROSS) * Page 1, line 1 - page 2, line 28; page 3, lines 15-18; page 3, line 35 - page 4, line 14; page 4, lines 22-27; page 4, line 35 - page 5, line 3; page 6, lines 22-29; claim 1; figure 1 *	1-3,6	B 26 F 1/28	
X	DE-A-2 410 060 (TEXMATO) * Page 9, first whole paragraph; claim 8 *	6		
A	---	1-4		
X	DE-A-2 523 608 (FRAUNHOFER) * Whole document *	6		
A	---	1-4		
X	FR-A-1 393 500 (ABADIE) * Page 1, right-hand column, lines 12-14; page 2, right-hand column, line 56 - page 3, left-hand column, line 12; claim 2; figures 1,4 *	6		
A	---	1,5		TECHNICAL FIELDS SEARCHED (Int. Cl.4)
A	US-A-3 385 951 (BANCROFT) * Figure 1 *	1,2,4-6		B 26 F
A	FR-A-2 399 307 (MOLINS)			
A	US-A-3 419 752 (SCHMIDT)			
A	US-A-2 545 208 (MEAKER)			
The present search report has been drawn up for all claims				
Place of search THE HAGUE		Date of completion of the search 06-10-1989	Examiner HUGGINS J.D.	
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				