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(71) Applicant: **KABEL TEKNIK LIMITED**  
**Allan Works Unit 10 and 11 Blackwater**  
**Trading Estate**

**Aldershot Hampshire GU12 4DL(GB)**

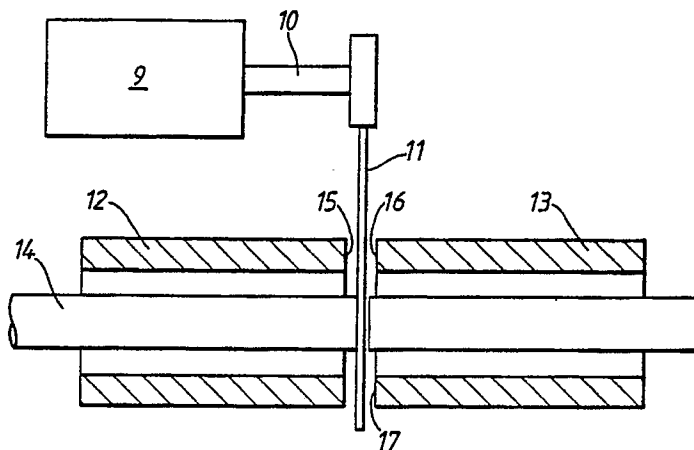
(72) Inventor: **Booton, Alan John**  
**Fairways 61 Aveley Lane The Bourne,**  
**Farnham, Surrey GU9 8PS(GB)**  
Inventor: **Gatfield, Arthur**  
**1 Waydon Hill Lane**  
**Farnham, Surrey, GU9 7QL(GB)**

(74) Representative: **Russell-Rayner, Albert Patrick**  
**Business Centre Avenue One Business Park**  
**Letchworth Garden City Hertfordshire SG6**  
**2HB(GB)**

(54) **Material cutting apparatus.**

(57) A drive arrangement for a cutter blade, wherein operational cutting movement of the blade (11) is arranged to be derived from a servo-type motor (9) whose output is so controllable as to provide a drive output voltage/time relationship which produces a rapid initial acceleration from rest to a value which produces such angular velocity of the output shaft

(10) of the motor as to establish a predetermined torque (angular momentum) in the blade (11) sufficient to cause the blade to effect a material cutting stroke and then on completion of a blade cutting stroke a rapid deceleration to bring the output shaft and thus the blade to a rest position.



*Fig. 3.*

EP 0 356 245 A3



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## EUROPEAN SEARCH REPORT

Application Number

**EP 89 30 8630**

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.5)
X	US-A-3 114 282 (H.REIFENHÄUSER ET AL) * column 1, lines 31 - 54 * column 3, line 14 - column 6, line 13; figures * - - - -	1-10	B 26 D 5/08 B 26 D 1/28
A	US-A-4 043 238 (VAN HAM) * column 2, line 8 - column 4, line 19; figures * - - - -	1,3,7	.
A	US-A-4 503 006 (KATO) * column 3, line 26 - column 5, line 46; figures 5, 6 * - - - - -	1,3,7	.
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			B 26 D
Place of search		Date of completion of search	Examiner
The Hague		31 May 91	GARELLA M.G.C.D.
<b>CATEGORY OF CITED DOCUMENTS</b> 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			