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(54) **Cushioning conversion machine and method with stock roll brake**

(57) A cushioning conversion machine and method for converting sheet stock material into a three dimensional strip of cushioning are disclosed. The conversion machine includes a conversion assembly and a stock supply assembly. The conversion assembly draws sheet stock material from a stock supply roll whereby the stock supply roll is rotated, and converts the stock material into a three dimensional strip of cushioning. The stock supply assembly supports the stock supply roll (11) and includes a braking assembly (72) movable between a brake engaged position and a brake disengaged position. In the brake engaged position, a braking force is imparted to the stock supply roll to prevent the stock supply roll from rotating. In the brake disengaged position, the braking force is removed from the stock supply roll thereby permitting the stock supply roll to rotate. The braking assembly is biased to the brake engaged position by a biasing member and is urged to the brake disengaged position by a force overcoming the bias.

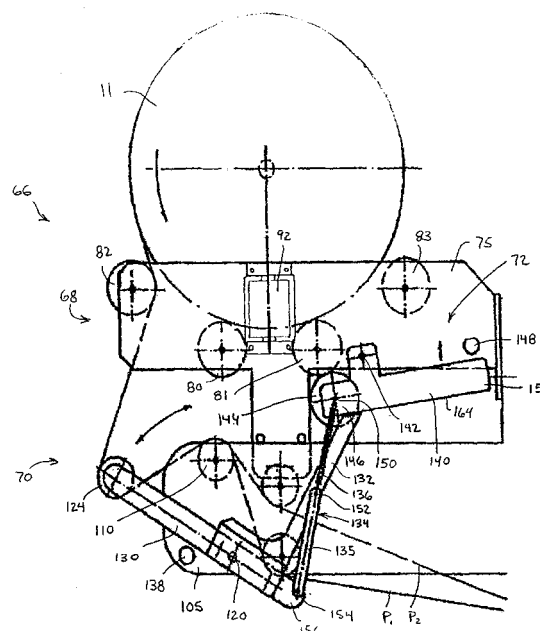


Fig. 3

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# EUROPEAN SEARCH REPORT

Application Number  
EP 01 30 7872

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.7)
D, A	US 5 123 889 A (SILVIS JOHN E ET AL) 23 June 1992 (1992-06-23) -----		B31D5/00
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			B31D
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
THE HAGUE		25 February 2003	Roberts, P
<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  &amp; : member of the same patent family, corresponding document</p>			

EPO FORM 1503 03/82 (P04C01)

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

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5123889	A	23-06-1992	US 5322477 A	21-06-1994
			AT 139476 T	15-07-1996
			AT 168930 T	15-08-1998
			AT 183962 T	15-09-1999
			AU 685970 B2	29-01-1998
			AU 3017495 A	02-11-1995
			AU 702211 B2	18-02-1999
			AU 6369198 A	13-08-1998
			AU 664357 B2	16-11-1995
			AU 8662291 A	28-04-1992
			CA 2093124 A1	06-04-1992
			DE 9116966 U1	10-11-1994
			DE 9116971 U1	03-11-1994
			DE 9117231 U1	11-09-1997
			DE 69120427 D1	25-07-1996
			DE 69120427 T2	14-11-1996
			DE 69129911 D1	03-09-1998
			DE 69129911 T2	28-01-1999
			DE 69131583 D1	07-10-1999
			DE 69131583 T2	27-04-2000
			DE 677379 T1	11-09-1997
			DE 688664 T1	11-09-1997
			DK 688664 T3	27-03-2000
			EP 0554338 A1	11-08-1993
			EP 0677379 A2	18-10-1995
			EP 0688664 A2	27-12-1995
			EP 0827826 A2	11-03-1998
			ES 2136778 T3	01-12-1999
			HK 1007988 A1	30-04-1999
			IE 913500 A1	08-04-1992
			JP 6504238 T	19-05-1994
			KR 252582 B1	01-05-2000
			PT 99162 A ,B	31-12-1993
			TR 26145 A	15-02-1995
			WO 9205948 A1	16-04-1992
			US 6311596 B1	06-11-2001
			US 6077209 A	20-06-2000
			US 5468208 A	21-11-1995
			US 5658229 A	19-08-1997
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