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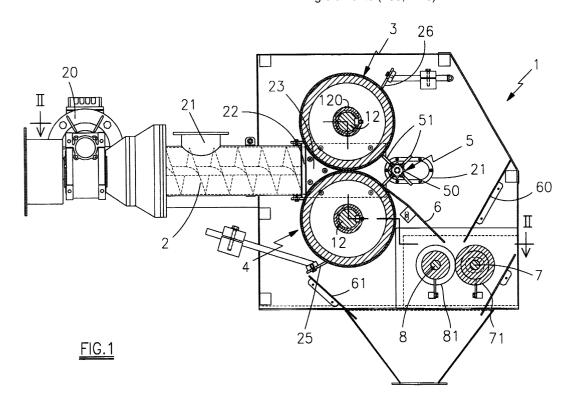
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#### (54) Rolling plant for flake formation

(57) A rolling plant for flake formation comprises a screw feeder (2) for feeding powder or atomized material in powder form between two overlying motorized rolls (3,4) of adjustable distance apart, they being arranged to form a uniform strip of compacted material

which is broken into flakes by a usual rotary means (5), downstream of which there is positioned a cutter (71,81) to reduce the dimensions of said flakes; said rolls (3,4) have a central annular recess (16) in which a layer (16) of elastomer is contained and retained by suitable locking elements (160,1410).





## **EUROPEAN SEARCH REPORT**

Application Number EP 00 20 2680

	DOCUMENTS CONSID	ERED TO BE RELEVANT	<del></del>		
Category	Citation of document with in of relevant pass	ndication, where appropriate, ages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.CI.7)	
Y	US 4 211 524 A (JEN 8 July 1980 (1980-0 * the whole documen	7–08)	1-3	B28B17/02 B28C1/18 B30B11/18 B30B11/16	
Х	EP 0 478 535 A (ICK 1 April 1992 (1992-		5,6,8	D30B11/10	
Y	* page 3, line 1 - * page 3, line 50 - * figures 9,13 *	line 4 *	1-3		
Х	DE 11 25 390 B (HAA 15 March 1962 (1962	S FRIEDRICH MASCHF)	5,6,8		
Υ	* column 2, line 27 * figures 1-4 *		1-3		
Х	DE 33 38 487 A (ESC 2 May 1985 (1985-05		5,6,8		
Υ	* abstract * * page 15, line 20		1-3		
Α	* figures 1,5-19 *		4,7	TECHNICAL FIELDS	
A	US 2 812 815 A (KRU 12 November 1957 (1 * the whole documen		1	SEARCHED (Int.CI.7) B28B B28C	
A	US 3 634 570 A (HIM ET AL) 11 January 1 * the whole documen	1	B30B B29B D06B		
			-		
	The present search report has t	,			
	Place of search	Date of completion of the search		Examiner	
	THE HAGUE	18 September 2002	2 Rea	1 Cabrera, R	
X : parti Y : parti docu A : tech	ATEGORY OF CITED DOCUMENTS cularly relevant if taken alone cularly relevant if combined with anot iment of the same category notogical background -written disclosure mediate document	L: document cited for	cument, but publice in the application or other reasons	shed on, or	

EPO FORM 1503 03.82 (P04C01)

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

EP 00 20 2680

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.

18-09-2002

Patent document cited in search report		Publication date		Patent family member(s)		Publication date	
US	4211524	А	08-07-1980	AU	525156		21-10-1982
				AU	5133279		17-04-1980
				BR	7906494		27-05-1980
				CA			13-07-1982
				DE	2940956		30-04-1980
				FR	2438540		09-05-1980
				JP 	55059840	Α	06-05-1980
ΕP	0478535	Α	01-04-1992	AT	145627	T	15-12-1996
				DE	59108377	D1	09-01-1997
				EP	0478535	A2	01-04-1992
DE	1125390	В	15-03-1962	NONE			
DE	3338487	Α	02-05-1985	DE	3338487	A1	02-05-1985
US	2812815	Α	12-11-1957	NONE			
US	3634570	 А	11-01-1972	CA	922075	A1	06-03-1973
				DE	2050863	A1	05-08-1971
				FR	2066160		06-08-1971
				GB	1323124	Δ	11-07-1973

FORM P0459

 $\stackrel{Q}{=}$  For more details about this annex : see Official Journal of the European Patent Office, No. 12/82