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Apparatus for sizing elongated food pieces.

57) Apparatus for sizing a mix of randomly sized food pieces into chunks of a predetermined maximum length. The apparatus includes a carrier drum (11) and a cutting drum (12) mounted on parallel shafts (14, 15) which are interconnected for rotation in opposing directions. The carrier drum (11) has a plurality of parallel longitudinal bars (16) mounted equidistant around the periphery of the drum, spaced apart a distance equal to the desired maximum length of the food chunks. The cutting drum (12) carries a plurality of elongated cutting blades (25) mounted parallel to the longitudinal bars (16) on the carrier drum (11) and spaced apart the same distance as the longitudinal bars (16). The drums (11, 12) are aligned so that upon rotation of the drums the blades (25) cooperate with the longitudinal bars (16) to sever elongated food pieces carried on the surface of the bars into the nip between the drums, without striking against the bars (16). A conveyor (40) mounted adjacent the carrier drum (11) delivers a mix of randomly sized food pieces onto the carrier drum (11), with the longitudinal axes of the elongated pieces in the mix being aligned so that the elongated pieces are deposited on the longitudinal bars (16) of the rotating carrier drum (11) perpendicular to the axes of the bars (16) and are carried into the nip between the counter rotating drum (12) where they are cut to a desired length.

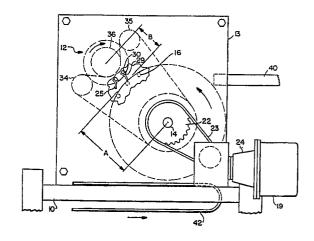


FIG. 3



EUROPEAN SEARCH REPORT

EP 89 11 1380

DOCUMENTS CONSIDERED TO BE RELEVANT					
Category		h indication, where appropriate, vant passages		elevant o claim	CLASSIFICATION OF THE APPLICATION (Int. CI.5)
Υ	BE-A-4 343 95 (LAMBIOT* Page 2, lines 28-31; pahe : 25-29; page 4, lines 19-21; t	3, lines 11-14; page 3, line	es 1		B 26 D 1/62
A Y	US-A-4 404 879 (FROHWE * Column 5, lines 12-25; figu	•	2, ^t	5,11	·
A A	DE-A-3 211 344 (KONE) * Abstract; page 5, lines 15-	17; page 10, lines 7-14 *	6- 1	10	
Α	US-A-4 391 374 (KRYNOC * Column 2, lines 10-13,18-2	•	1	4	
Α	US-A-3 483 780 (HUDSON) 1 * Column 1, lines 30-32; figures 1,2,3 *				
Α	US-A-2 454 237 (WAHL) 	- - -			
					TECHNICAL FIELDS SEARCHED (Int. CI.5)
					B 26 D B 07 C B 07 B B 27 J A 01 D A 01 F B 03 B
	The present search report has t				
	Place of search Date of co		earch		Examiner
The Hague 12 April 91 CATEGORY OF CITED DOCUMENTS X: particularly relevant if taken alone Y: particularly relevant if combined with another document of the same catagory A: technological background		E: earlier patent document, but published on, or affecting date D: document cited in the application L: document cited for other reasons &: member of the same patent family, corresponding			
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