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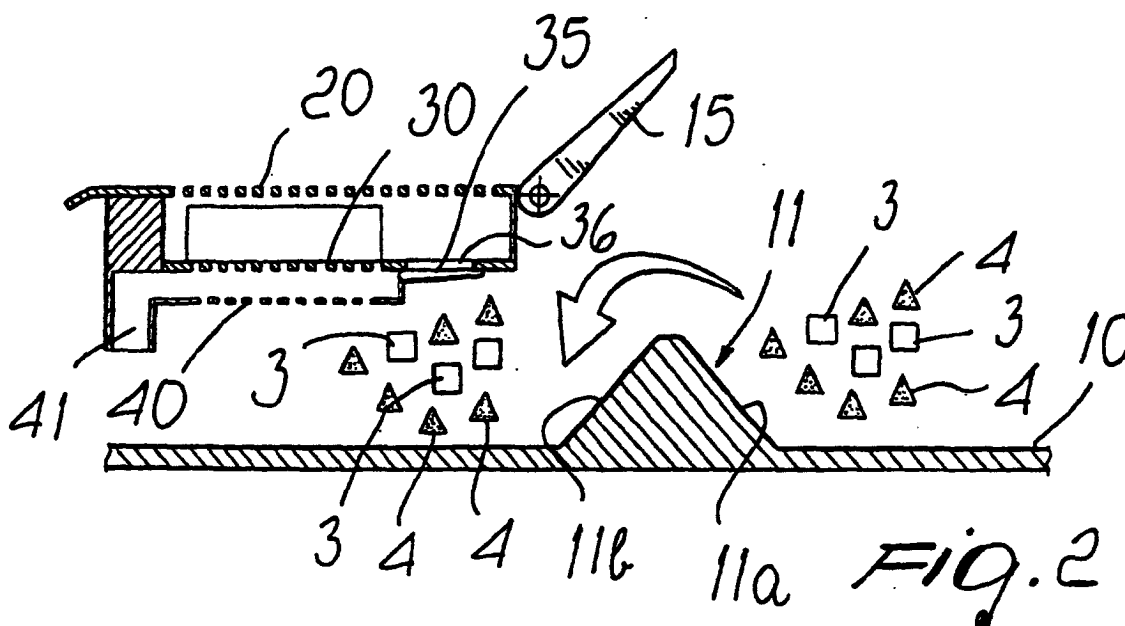
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(54) **Circular vibratory finishing machine with automatic separation of the parts to be treated and of the finishing media**

(57) The present invention relates a circular vibratory finishing machine (1) with automatic separation of the parts to be treated (3) and of the finishing media (4), comprising a circular tank body (2) for containing the parts to be treated (3) and the finishing media (4) and provided with a bottom (10) that has an extraction ramp (11) that can be engaged by an extraction flap (15) for

conveying the mass being treated in the tank body (2) toward a grille (20) for separating the treated parts. The particularity of the invention consists in that it comprises, below the separation grille (20), an intermediate grille (30) is provided for selecting the finishing media (4) in order to convey the reusable finishing media (4) into the tank body (2) and the undersized finishing media (5) onto a lower surface (40) for outward evacuation.



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EUROPEAN SEARCH REPORT

Application Number
EP 02 02 8795

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)
Y	EP 0 400 515 A (ROLLWASCH ITALIANA SPA) 5 December 1990 (1990-12-05) * column 3, line 10 - line 40; figures * ---	1-3	B24B31/06 B08B3/04 B24B31/16
Y	PATENT ABSTRACTS OF JAPAN vol. 018, no. 435 (M-1655), 15 August 1994 (1994-08-15) -& JP 06 134664 A (TIPTON MFG CORP), 17 May 1994 (1994-05-17) * abstract *	1-3	
A	PATENT ABSTRACTS OF JAPAN vol. 1998, no. 13, 30 November 1998 (1998-11-30) -& JP 10 217100 A (NORITSU KOKI CO LTD), 18 August 1998 (1998-08-18) * abstract; figures * ---	1	
A	DE 34 11 360 C (WALTHER CARL KURT GMBH) 5 September 1985 (1985-09-05) * abstract * -----	1	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			B08B B24B
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
THE HAGUE		29 October 2003	Garella, M
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			

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

EP 02 02 8795

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
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29-10-2003

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0400515	A	05-12-1990	IT 1230226 B	18-10-1991
			AT 98545 T	15-01-1994
			DE 69005196 D1	27-01-1994
			DE 69005196 T2	07-07-1994
			EP 0400515 A1	05-12-1990

JP 06134664	A	17-05-1994	NONE	

JP 10217100	A	18-08-1998	NONE	

DE 3411360	C	05-09-1985	DE 3411360 C1	05-09-1985
			AT 32038 T	15-02-1988
			DE 3468828 D1	25-02-1988
			EP 0162133 A1	27-11-1985
