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(54) **Satin finishing system with flap wheels for shaped tubes**

(57) A satin finishing system with flap wheels for shaped tubes is described which comprises at least one satin finishing station (4) equipped with flap wheels (5) with a vertical axis, at least one satin finishing station (6) equipped with flap wheels (7) with a horizontal axis, means designed to rotate the flap wheels (5, 7), feed means (8) designed to make the tube (3) slide longitudinally through said stations (4, 6) and means (9) designed

to move the tube (3) transversally to its direction of travel.

The system preferably comprises a plurality of stations (4, 6) equipped with flap wheels (5, 7) with a vertical and horizontal axis, each station (4, 6) allowing a different degree of finishing of the tube being processed.

To compensate for wear on the flap wheels (5, 7) and keep their peripheral speed constant, the speed of rotation of the flap wheels (5, 7) is advantageously increased.

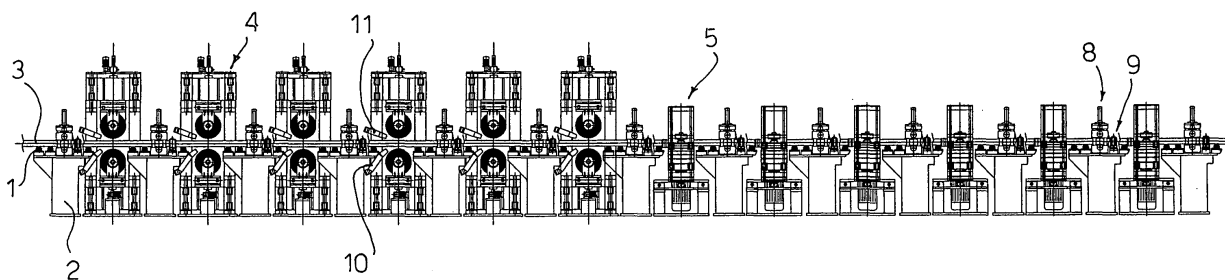


FIG. 1

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EUROPEAN SEARCH REPORT

Application Number
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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
A	PATENT ABSTRACTS OF JAPAN vol. 018, no. 331 (M-1626), 23 June 1994 (1994-06-23) -& JP 06 079611 A (NISSHIN STEEL CO LTD), 22 March 1994 (1994-03-22) * abstract; figures * -----	1	INV. B24B29/06
A	EP 1 350 600 A (OLIMPIA 80 SRL) 8 October 2003 (2003-10-08) * abstract; figures * -----	1	
A	US 5 901 400 A (FULOP ET AL) 11 May 1999 (1999-05-11) * abstract; figures * -----	1	
A	US 6 016 626 A (AUER ET AL) 25 January 2000 (2000-01-25) * abstract; figures * -----	1	
			TECHNICAL FIELDS SEARCHED (IPC)
			B24B
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 26 April 2006	Examiner 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.**

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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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26-04-2006

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP 06079611 A	22-03-1994	NONE	
EP 1350600 A	08-10-2003	IT MI20020684 A1	02-10-2003
US 5901400 A	11-05-1999	NONE	
US 6016626 A	25-01-2000	CA 2225134 A1	17-06-1998
		CZ 9704028 A3	15-07-1998
		DE 19652510 A1	18-06-1998
		EP 0849057 A2	24-06-1998
		ES 2162184 T3	16-12-2001
		HU 9702487 A2	01-02-1999
		PT 849057 T	30-01-2002