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(11) **EP 1 142 648 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
02.01.2003 Bulletin 2003/01

(51) Int Cl.7: **B05C 5/02, B05C 5/00**

(43) Date of publication A2:
10.10.2001 Bulletin 2001/41

(21) Application number: **01107815.1**

(22) Date of filing: **05.04.2001**

(84) Designated Contracting States:
**AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU
MC NL PT SE TR**
Designated Extension States:
AL LT LV MK RO SI

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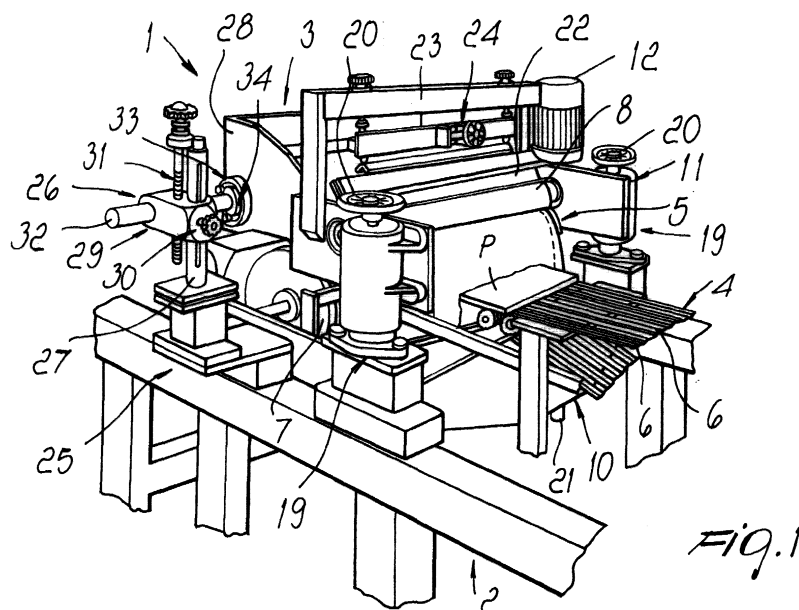
(30) Priority: **07.04.2000 IT MO000068**

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(54) **Apparatus for applying products, such as liquids and/or fluid mixes, to surfaces of manufactured articles**

(57) The apparatus for applying products such as liquids and/or fluid mixes on surfaces of manufactured articles (P) which advance on a conveyance line (4) comprises a frame (2) for supporting at least one tray (3) which is arranged above the line (4), is connected to a circuit for supplying the product to be applied, and has a spillway (5) for the outflow of the product onto the advancing manufactured articles (P), at least one motor-

ized roller (8) having a longitudinal axis (9) which is substantially parallel to the plane defined by the line (4) and is arranged in an upward region proximate to the spillway (5) and is actuated so as to turn about the axis (9) in the opposite direction with respect to the product outflow direction, and a bottom (10) for collecting the excess product falling from the manufactured articles (P) which is arranged substantially below the line (4).



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EUROPEAN SEARCH REPORT

Application Number
EP 01 10 7815

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)
X	DE 90 12 108 U (FIRMA THEODOR HYMMEN) 25 October 1990 (1990-10-25) * page 3, line 15 - line 18 * * page 4, line 21 - line 28 * * figures *	1,6,7, 9-12,15	B05C5/02 B05C5/00
A	---	2-5,8, 13,14	
A	US 5 885 660 A (RUSCHAK KENNETH J ET AL) 23 March 1999 (1999-03-23) * abstract * * column 5, line 20 - line 26 * * figures * -----	1	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			B05C
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 29 October 2002	Examiner Barré, V
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			

EPO FORM 1503 03 82 (P04C01)

**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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29-10-2002

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
DE 9012108	U	25-10-1990	DE 9012108 U1	25-10-1990
			ES 2026808 A6	01-05-1992
			IT 1241906 B	01-02-1994
US 5885660	A	23-03-1999	EP 0931596 A2	28-07-1999
			JP 11253862 A	21-09-1999