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(72) Inventors:
• **RUBBO, Dario**
36075 Montecchio Maggiore (IT)
• **CAILOTTO, Diego**
36070 Trissino (IT)

(74) Representative: **Contadin, Giorgio et al**
Notarbartolo & Gervasi S.p.A.
Corso di Porta Vittoria, 9
20122 Milano (IT)

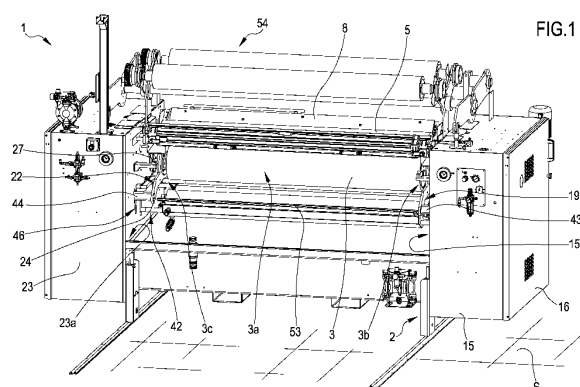
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(71) Applicant: **DMS International Societa' a
Responsabilita'
Limitata Semplificata**
36075 Montecchio Maggiore (IT)

(54) **MACHINE FOR FINISHING FLEXIBLE LAMINAR SURFACES USED AS COATING OF OBJECTS**

(57) A machine (1) for finishing flexible laminar surfaces (P) used as coating of objects comprising a load-bearing frame (2) resting on a reference surface (S), a lower transport and contrast cylinder (3), covered with flexible material and stably coupled to the load-bearing frame (2), operatively connected with first motorization means (4) which rotate it around a first transverse axis (X_1) defined by the lower cylinder (3), an upper coating cylinder (5), provided with an engraved outer surface (5a) and stably coupled to the load-bearing frame (2), operatively connected with second motorization means (6) which rotate it around a second transverse axis (X_2) defined by the upper cylinder (5) which is superiorly facing and opposed to the lower cylinder (3) from which it is spaced apart to define a passage light (7) that receives one at a time spread flexible laminar surfaces (P) at least partly supported by the lower cylinder (3), and a transversal blade (8), coupled to the load-bearing frame (2), operatively connected with the upper cylinder (5), on the outer surface (5a) of which it distributes a film of liquid product (L) which the upper cylinder (5), while rotating around the second transverse axis (X_2), deposits by pressure, at the passage light (7), on the upper face (P_s) of the flexible laminar surfaces (P) advancing along a prefixed direction (F) and supported by the lower transport and contrast cylinder (3). In particular, the ratio (D_1/D_2)

between the diameter (D_1) of the lower cylinder (3) and the diameter (D_2) of the upper cylinder (5) has a value comprised between 1.35 and 1.40 ($1.35 \leq D_1/D_2 \leq 1.40$).





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,D	EP 2 177 632 A1 (GE MA TA SPA [IT]) 21 April 2010 (2010-04-21) * claim 1; figure 1 *	1-20	INV. C14B1/56 B05C1/10
A	EP 2 154 255 A1 (GE MA TA SPA [IT]) 17 February 2010 (2010-02-17) * claim 1; figure 1 *	1	
A	EP 3 150 728 A1 (GE MA TA SPA [IT]) 5 April 2017 (2017-04-05) * claim 1; figures 1-6 *	1	
A	EP 3 103 887 A1 (GE MA TA SPA [IT]) 14 December 2016 (2016-12-14) * figures 1-4 *	1	
			TECHNICAL FIELDS SEARCHED (IPC)
			C14B B05C
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 23 January 2020	Examiner Iamandi, Daniela
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.
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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 2177632 A1	21-04-2010	AT 556151 T EP 2177632 A1 ES 2387181 T3 IT 1392599 B1	15-05-2012 21-04-2010 17-09-2012 09-03-2012
EP 2154255 A1	17-02-2010	AT 492654 T EP 2154255 A1 ES 2358237 T3 IT 1390925 B1	15-01-2011 17-02-2010 06-05-2011 19-10-2011
EP 3150728 A1	05-04-2017	NONE	
EP 3103887 A1	14-12-2016	EP 3103887 A1 TR 201907080 T4	14-12-2016 21-06-2019

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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82