

(11) EP 3 536 188 A1

(12)

EUROPEAN PATENT APPLICATION

(43) Date of publication:

11.09.2019 Bulletin 2019/37

(51) Int Cl.:

A45D 29/00 (2006.01) A45D 40/20 (2006.01) A45D 34/04 (2006.01)

(21) Application number: 19000109.9

(22) Date of filing: 04.03.2019

(84) Designated Contracting States:

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated Extension States:

BA ME

Designated Validation States:

KH MA MD TN

(30) Priority: 05.03.2018 IT 201700102144 U

(71) Applicant: Delli Carri, Manuela 71122 Foggia (FG) (IT)

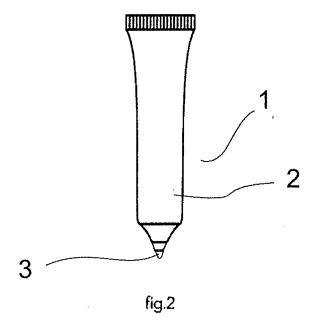
(72) Inventor: **Delli Carri, Manuela** 71122 Foggia (FG) (IT)

(74) Representative: Russo, Dimitri c/o Dimitri Russo SRL Via G. Bozzi, 47A 70121 Bari (IT)

(54) TUBE-SHAPED PEN FOR APPLYING SEMI-PERMANENT NAIL GEL POLISH

(57) Tube-shaped pen for the application of semi-permanent gel nail polish, including a microperforated silicone tip that allows, through a slight squeeze of the tube, the leakage of the nail polish, so as to allow a

quick and precise coloring of the nails, without color smudges quite common with the brush, and lasting over two weeks.



15

20

30

Description

[0001] The present utility model relates to nail polish application systems and, specifically, to UV semi-permanent gel nail polish.

1

[0002] As known, for centuries, women decorate their nails, applying different nail polish colors. It is also known that traditional nail polishes have the disadvantage of chipping in a few days.

[0003] To obviate to the above disadvantage, semipermanent gel nail polishes are more and more used due to their long-lasting duration, up to three weeks. This prolonged duration of the nail polish is achieved thanks to the use of particular nail polishes which polymerize when exposed to the action of UV rays.

[0004] Today, UV semi-permanent gel nail polishes are applied through the brushes with which the nail polish bottles are normally equipped.

[0005] However, the use of the brush to apply the polish on the nails presents some disadvantages such as imprecision of the stroke, color dripping, especially when the polish is not applied by cosmetics professionals.

[0006] In particular, the use of brushes involves a considerable waste of time since the average time for the application of the polish on all the hand nails is not less than 40 minutes.

[0007] Moreover, the use of a brush for applying the polish, when used in a beauty salon, can cause fungal infections including yeasts or molds.

[0008] The main objective of the present utility model is to provide a tube-shaped pen for the application of semi-permanent gel nail polish, which obviates the above-mentioned disadvantages, and, in particular, which can also be used by inexperienced users still obtaining an excellent result, with no color smudges.

[0009] A further objective of the present utility model is to reduce the application time of the semi-permanent gel nail polish.

[0010] Another purpose is to provide a pen for the application of semi-permanent gel nail polish which prevents the occurrence of fungal infections such as yeasts or molds, when used in a professional beauty salon.

[0011] To achieve the above and other objects, a tube-shaped pen for the application of semi-permanent gel nail polish, according to the present utility model, is provided with a micro-perforated silicone tip, which releases the semi-permanent gel nail polish and which can be easily cleaned after each use, through suitable devices, such as, for example, antifungal products, without contaminating the product contained within the pen.

[0012] Finally, a further object is to provide a tube-shaped pen for the application of semi-permanent gel nail polish, comprising a cap provided with a small Plexiglas lens, which allows the immediate recognition of the nail polish color contained within the pen itself.

[0013] The tube-shaped pen for the application of semi-permanent gel nail polish is characterized by its micro-perforated silicone tip that allows the release of the

polish through a slight pressure of the fingers, so as to allow a quick and precise coloring of the nails, without color smudges quite common with the brush, and lasting over two weeks.

[0014] These and further purposes are achieved by the tube-shaped pen for the application of semi-permanent gel nail polish, according to the present utility model, which is hereafter described, in a preferred embodiment which however is not limiting further developments falling within the scope of the present utility model, with reference to the accompanying drawings:

Fig. 1 is a front view of a traditional semi-permanent gel nail polish bottle, equipped with a brush for applying the nail polish;

Fig. 2 is a front view of the tube-shaped pen for the application of semi-permanent gel nail polish according to the present utility model;

Fig. 3 is a detailed view of the tip of the tube-shaped pen for the application of semi-permanent gel nail polish according to the present utility model;

Fig. 4 is an axonometric view of the cap of the tubeshaped pen for the application of semi-permanent gel nail polish according to the present utility model; Fig. 5 is an axonometric view of the cap of the tubeshaped pen for the application of semi-permanent gel nail polish according to the present utility model, with indications for opening and closing the pen;

Fig. 6 is an axonometric view of the Plexiglas lens to be applied to the cap shown in Figure 5;

Fig. 7 is an axonometric view of the Plexiglas lens when applied to the cap.

[0015] With reference to Figure 2, the tube-shaped pen for the application of semi-permanent gel nail polish according to the present utility model, is generally indicated with the number 1.

[0016] The pen 1 comprises a tube 2 preferably made of COEX or other similar material, and a micro-perforated tip 3 made of soft silicone.

[0017] In order to avoid leakage of the nail polish due to accidental squeezes of the tube 2, and to make the color of the nail polish contained within the same pen 1 immediately recognizable, the pen 1 is provided with a cap 4, on which a small transparent lens 5 of Plexiglas, or other similar material, is applied, said lens 5 being engaged by means of wings 51 to the head of the cap 4 opportunely provided with slots 41.

[0018] The transparent lens 5 has a cavity to allow it to be filled with the nail polish of the same color as that contained in the tube 2. This makes possible to show multiple pens 1 on display units by color shading so obtaining a faithful color chart which cannot be obtained through the normal printing processes.

[0019] The application of the semi-permanent gel nail polish is obtained through a slight pressure of the tube 2 and the consequent leakage in small doses of the nail polish, through the micro-perforated tip 3 in soft silicone.

50

Claims

1. Tube-shaped pen for the application of semi-permanent gel nail polish, comprising a tube (2) filled with nail polish and a cap (4), characterized in that the tube (2) is provided with a micro-perforated tip made of soft silicone (3).

3

2. Tube-shaped pen for the application of semi-permanent gel nail polish, according to claim 1, characterized in that the cap (4) is provided, at the top, with a small transparent lens (5) in its turn provided with a cavity to contain nail polish of the same color as that contained in the tube (2).

3. Tube-shaped pen for the application of semi-permanent gel nail polish, according to claim 2, characterized in that the small transparent lens (5) comprises means (51) to be engaged with the cap (5).

4. Tube-shaped pen for the application of semi-permanent gel nail polish, according to previous claims, characterized in that the nail polish contained in the tube (2) is a semi-permanent UV color gel nail polish.

15

20

25

30

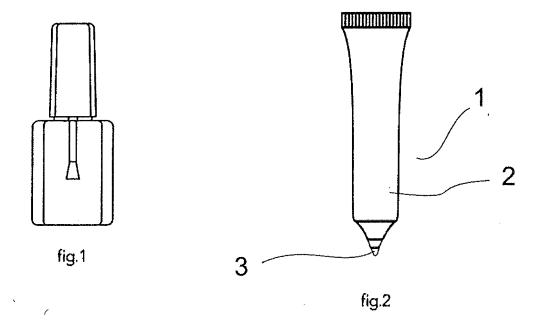
35

40

45

50

55



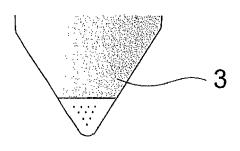
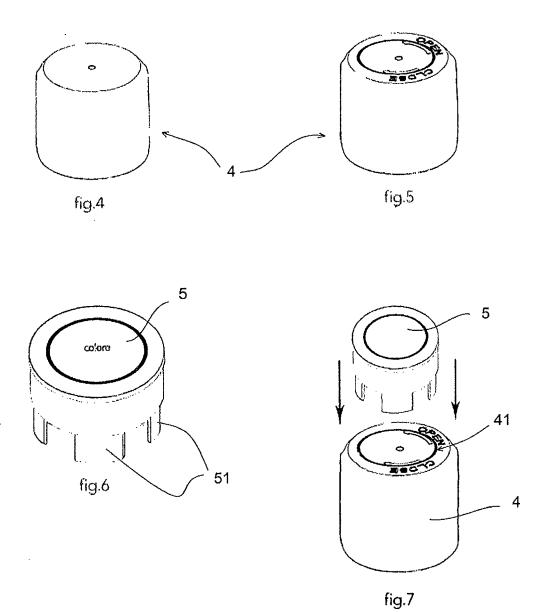


fig.3





5

EUROPEAN SEARCH REPORT

Application Number EP 19 00 0109

		DOCUMENTS CONSID	ERED TO BE RELEVANT				
	Category	Citation of document with in	ndication, where appropriate,	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)		
10	X	JP S61 255609 A (MA 13 November 1986 (1 * the whole documen	986-11-13)	1 2-4	INV. A45D29/00 A45D34/04		
15	Y	16 December 2015 (2	DORDISPLAY S L [ES]) 015-12-16) , [0017] - [0022];	12-16)			
20	X	US 2017/209894 A1 (27 July 2017 (2017- * paragraphs [0050]		1			
25	A	WO 2012/050632 A1 (19 April 2012 (2012 * page 3 - page 4;		1-4			
25	A	FR 3 020 931 A1 (CH [FR]) 20 November 2 * page 5 - page 6;		1-4	TECHNICAL FIELDS		
30					SEARCHED (IPC)		
35					ATJU		
40							
45							
3	The present search report has		·	<u> </u>	Foundation		
50 (10)	Place of search The Hague		Date of completion of the search 12 July 2019 Di		escu, Daniela		
0 90 90	CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the		nvention		
50 (100040d) 28 83 83 WHOO OCH	Y : par doc A : tecl O : nor	ticularly relevant if taken alone ticularly relevant if combined with anotl ument of the same category hnological background n-written disclosure ermediate document	after the filing dat ner D : document cited in L : document cited fo	E: earlier patent document, but published on, or after the filing date D: document oited in the application L: document oited for other reasons E: member of the same patent family, corresponding document			

EP 3 536 188 A1

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

EP 19 00 0109

5

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 The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

12-07-2019

10	Patent document cited in search report		Publication date	Patent family member(s)	Publication date
	JP S61255609	Α	13-11-1986	NONE	
15	EP 2954800	A1	16-12-2015	EP 2954800 A1 ES 1115856 U US 2015359313 A1	16-12-2015 11-07-2014 17-12-2015
20	US 2017209894	A1	27-07-2017	EP 3408107 A1 JP 2019511952 A US 2017209894 A1 WO 2017132221 A1	05-12-2018 09-05-2019 27-07-2017 03-08-2017
	WO 2012050632	A1	19-04-2012	NONE	
25	FR 3020931	A1 	20-11-2015	NONE	
30					
35					
40					
45					
50					
55	PORT LINE OF				

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