

US Patent & Trademark Office

Patent Public Search | Text View

United States Patent Application Publication

20250259141

Kind Code

A1

Publication Date

August 14, 2025

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SYSTEM AND METHOD FOR TRACKING THE DISTRIBUTION OF A COSMETIC PRODUCT AND USE OF CONTAINERS FOR A COSMETIC PRODUCT

Abstract

A tracking system for tracking a distribution of a cosmetic product has a main container having a main volume to contain or containing a stock of the cosmetic product, and at least one secondary container having a secondary volume to contain or containing the cosmetic product. The secondary volume is smaller than the main volume of the main container. The main container has a tracking device having at least one recognition element provided with a recognition code that identifies the cosmetic product. The at least one recognition element is separably engaged with the main container and is configured or configurable to engage the secondary container when the at least one recognition element is disengaged from the main container.

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Family ID: 90924166

Appl. No.: 19/050863

Filed: February 11, 2025

Foreign Application Priority Data

IT 102024000002917

Feb. 12, 2024

Publication Classification

Int. Cl.: G06Q10/087 (20230101); G06K7/00 (20060101)

U.S. Cl.:

CPC G06Q10/087 (20130101); G06K7/00 (20130101);

Background/Summary

CROSS-REFERENCE TO RELATED APPLICATION

[0001] This application claims priority to Italian Patent Application No. 102024000002917, filed Feb. 12, 2024, the entire contents of which are hereby incorporated by reference.

FIELD OF THE INVENTION

[0002] The present invention relates to a system for tracking the distribution of a consumable product. Furthermore, the present invention relates to a method for tracking the distribution of a consumable product. Furthermore, the present invention relates to a method for tracking the components of the tracking system.

BACKGROUND OF THE INVENTION

[0003] In the pharmaceutical sector, drug tracking systems are known. US 2002/093189 A1 describes a container with a label that bears half of the identification code of a medicine; when the medicine is administered, the person administering the medicine prints the medical prescription, detaches the second half of the identification code from it and applies it to the container in such a way that the two halves are adjacent and the entire code is readable by an electronic reader to confirm the correctness of the medicine to be administered. The document “Multi-flag Medication Barcode Labels” shows an insulin container with a plurality of labels indicating the batch of insulin, labels that can be detached from the container to be applied to the sterile single-dose syringe with which the medicine is administered. All these systems therefore concern disposable containers, containers that are non-refillable and non-reusable for safety and hygiene reasons.

[0004] On the contrary, the present invention finds application in public or private environments, such as industrial environments, offices, or hotels, in which containers are provided for the distribution of a consumable product. The present invention finds preferred application in the field of distribution of cosmetic products. The term “consumable product” refers to a product intended to be used or consumed, for example a powdered or granular product or a pasty product or a liquid or fluid product. For example, “consumable product” means a sanitizing liquid, a detergent, a liquid soap, a foam bath, a shampoo, a cream, or other cosmetic products.

[0005] In accordance with the ecological principles for reducing waste from plastics and carbon footprint, which are nowadays incorporated into common consumer practice and, in some aspects, standardized according to law, containers for consumable products must be reused and, to this end, periodically filled.

[0006] In such circumstances, one or more containers are filled with a consumable product coming in turn from another container having the function of a reservoir of consumable product, typically having a volume greater than the volume of the container to be filled.

[0007] Specifically, the distribution chain of a consumable product provides for the storage of a stock of consumable product upstream by means of a main container, and a distribution of the consumable product intended for the downstream end user by means of one or more secondary containers. The consumable product is distributed from the main container to the at least one secondary container by operations for refilling the secondary container, for example by manual operations carried out by a specific operator. Therefore, the secondary container is intended to perform a predefined filling cycle, for example following substantial emptying or after a certain

time interval or after a predefined number of distribution cycles of consumable product to the end user. By way of example, the main container is made of a cellulose-based material or a plastics material, for example one made of a rigid material or a flexible-walled packaging.

[0008] Hereinafter, “end user” refers to the user who uses or consumes the consumable product, for example to cleanse or disinfect parts of his/her body.

[0009] Hereinafter, “distribution” aimed at the end user means dispensing, dosing, pouring, spraying, or nebulization intended for use or consumption by the end user.

[0010] One of the problems that occur in environments in the sector is the inability to track, over time, the origin of the consumable product being refilled in a given container in a certain and reliable manner.

[0011] This aspect is of critical importance in cases where the end user develops issues attributable to the consumable product, for example in the case of the end user experiencing an allergic reaction or in the case of contamination during distribution operations between the containers or in the case of a child accidentally ingesting the consumable product.

[0012] In addition, industry regulations formally require monitoring of the consumable product, particularly of the nature and distribution of the consumable product. In the field of cosmetics, for example, regulation 1223/2009 requires traceability of the production batch.

[0013] The sector has encountered difficulties in ensuring the traceability of the consumable product in a certain manner. Similarly, the sector has found it difficult to monitor, in a simple and effective manner, the use and useful life of the containers and components used to distribute a consumable product.

SUMMARY OF THE INVENTION

[0014] The object of the present invention is to provide a tracking system and a method for tracking the distribution of the consumable product that solve the problems mentioned above.

[0015] An object of the present invention is to provide a tracking system that allows the distribution of consumable product between the containers to be monitored effectively and reliably.

[0016] An object of the present invention is to offer to the operators tasked with refilling with consumable product a structurally simple tracking system and a tracking method that is intuitive and easily repeatable on a large scale.

[0017] Another object of the present invention is to provide a tracking system and method by which it is possible to comply with legal obligations.

[0018] A further object of the present invention is to monitor the life cycle of the containers as a function of the number of uses.

[0019] These and other objects are achieved by a system for tracking the distribution of the consumable product and a method for tracking the distribution of the consumable product as described and claimed herein. Preferred embodiments involving additional beneficial technical effects are also described.

Description

BRIEF DESCRIPTION OF THE FIGURES

[0020] The present invention is described below with the aid of the accompanying drawings, wherein:

[0021] FIG. 1 shows a tracking system in accordance with the present invention, according to an embodiment;

[0022] FIGS. 2 and 2a show a main container of the tracking system, respectively in two further embodiments;

[0023] FIG. 3 shows a secondary container of the tracking system, in a further embodiment;

[0024] FIG. 4 shows a secondary container of the tracking system, in a further embodiment; and

[0025] FIG. 5 shows a main distribution device in a further embodiment.

DETAILED DESCRIPTION

[0026] In the figures, the reference numeral **1** overall indicates a system for tracking the distribution of a consumable product. The present invention finds preferred application in the field of distribution of cosmetic products; therefore, the consumable product is a cosmetic product. The term “cosmetic” refers to products (in the form of liquid, fluid, cream, gel, lotion, emulsion) for cleansing, perfuming, hydrating the skin, body, face, hair, such as detergents, sanitizers, soaps, bubble bath, shower gel, shampoo, conditioners, perfumes, face and body creams.

[0027] According to the present invention, the tracking system **1** comprises a main container **2** which comprises a tracking device **4**.

[0028] The main container **2** is provided with a main chamber having a main volume for containing the consumable product.

[0029] In one embodiment, the consumable product may be contained in the main chamber.

[0030] In one embodiment, the consumable product is contained in the main chamber.

[0031] The main container **2** contains or is suitable for containing a stock of consumable product in the main chamber.

[0032] “Stock” means a reserve quantity intended to be stored in a special environment, typically sheltered from humidity, heat, and light sources, and intended to fill secondary containers.

[0033] In one embodiment, the main volume is between 0.8 liters and 1000 liters, preferably between 1 and 50 liters, even more preferably between 1.5 and 15 liters, for example approximately 10 liters.

[0034] In one embodiment, the main volume is approximately 1 liter or approximately 5 liters.

[0035] In one embodiment, the main container is a *Pallecon*.

[0036] In one embodiment, the tracking system comprises a secondary container **3** provided with a secondary chamber having a secondary volume to contain a consumable product to be distributed to the end user.

[0037] In one embodiment, the consumable product may be contained in the secondary chamber.

[0038] In one embodiment, the consumable product is contained in the secondary chamber.

[0039] The secondary container **3** contains or is suitable for containing consumable product to be distributed to the end user.

[0040] In one embodiment, the secondary volume is between 0.1 liters and 5 liters, preferably between 0.25 and 2.5 liters, even more preferably between 0.5 and 1 liter, for example approximately 0.66 liters or 0.75 liters.

[0041] According to the present invention, the secondary volume is smaller than the main volume.

[0042] In one embodiment, the main volume is smaller than the secondary volume. This embodiment, for example, finds preferred application in the case in which the consumable product contained in the main chamber of the main container is a highly concentrated type and intended to be diluted, for example mixed with water inside the secondary chamber of the secondary container.

[0043] In one embodiment, the main volume is an integer multiple of the secondary volume. In other words, the secondary volume is an integer submultiple of the main volume.

[0044] In one embodiment, the tracking system **1** comprises a plurality of secondary containers **3**.

[0045] In one embodiment, the secondary containers **3** of the plurality of secondary containers **3** all have the same secondary volume.

[0046] In one embodiment, all or some secondary containers **3** of the plurality of secondary containers **3** have different secondary volumes from each other. In the most common situation of use, the product contained in the main container becomes depleted as a result of a variable and non-predefined number of filling cycles of the secondary containers.

[0047] In one embodiment, the main volume is such that the sum of the secondary volumes of the secondary containers **3** is equal to or less than the main volume.

[0048] In one embodiment, the secondary container **3** comprises a secondary distribution device **6**

configured to allow and/or prevent fluid communication between the environment outside of the secondary chamber and a secondary dispensing opening in communication with the secondary chamber, for example located at the end of a neck, preferably threaded, of the secondary container **3**.

[0049] In one embodiment, the secondary distribution device **6** is a pump dispenser, for example manual or automated, operatively connected to the secondary chamber.

[0050] In one embodiment, the secondary distribution device **6** is a valve.

[0051] In one embodiment, the secondary distribution device **6** is a cap, such as a screw cap, a flip-top cap, or a snap-on cap.

[0052] In one embodiment, the secondary distribution device **6** comprises a threaded attachment portion.

[0053] In one embodiment, the secondary distribution device **6** is configurable in a use configuration, in which the distribution or dispensing of the consumable product from the secondary chamber to the outside is allowed, and in a refilling configuration, in which entry of the consumable product into the secondary chamber from the outside is allowed while remaining engaged with the secondary container **3**, for example while remaining screwed to the neck of the secondary container **3**.

[0054] In one embodiment, the secondary container **3** comprises one or more indication elements, for example a thickened or raised notch on an outer surface of the secondary container, to indicate the level of the consumable product in the secondary chamber, corresponding to the indication of the possible, required or suggested filling level of the secondary container. Preferably, the indication elements are positioned so as to indicate a volume of 1.5 liters therebetween or with respect to the bottom of the secondary container.

[0055] According to the present invention, the tracking device **4** comprises a plurality of recognition elements **45**, each provided with a recognition code **43** that identifies the consumable product.

[0056] Preferably, the recognition code **43** identifies the consumable product contained or intended to be in the main chamber of the main container **2**.

[0057] In the discussion, “recognition code” means a set of conventional markings that allows for the unambiguous identification of the consumable product. In particular, the recognition code allows the unambiguous identification of a production batch of a consumable product. In other words, the recognition code makes it possible to track the characteristics of its production (for example, day, place, type of production process).

[0058] In one embodiment, the recognition code comprises or consists of a numeric code.

[0059] In one embodiment, the recognition code comprises or consists of an alphabetical code.

[0060] In one embodiment, the recognition code comprises or consists of a figurative code, for example based on figures or symbols.

[0061] In one embodiment, the recognition code comprises or consists of a barcode.

[0062] In one embodiment, the recognition code comprises or consists of a color code.

[0063] In one embodiment, the identification code comprises or consists of a QR code.

[0064] In one embodiment, the recognition code comprises or consists of a tactile code, for example based on low-reliefs.

[0065] In one embodiment, the recognition code comprises or consists of unambiguous symbols according to a raised tactile reading and writing system for the visually impaired and the blind, for example according to the Braille language.

[0066] In one embodiment, the recognition code comprises or consists of a compound that reflects light visible to the naked eye. For example, in one embodiment, the recognition code is made of graphite or ink, for example printed or written in ink.

[0067] In one embodiment, the recognition code comprises or consists of a compound that reflects light outside the visible spectrum, i.e., outside the range of 380-750 nm. For example, in one

embodiment, the recognition code is made with reversible invisible ink or with ultraviolet light-sensitive ink.

[0068] According to the present invention, the recognition element **45** is engaged with the main container **2** in a separable manner, and is configured or configurable to engage a secondary container **3** when it is disengaged from the main container **2**.

[0069] Preferably, the separation from the main container **2** and/or the engagement with the secondary container **3** may be achieved manually, by the action of an operator tasked with refilling the secondary container **3**.

[0070] In one embodiment, the recognition element **45** is a predominantly planar element, for example made of a plastic material or a cellulose or paper-based material.

[0071] In a preferred embodiment, the recognition element **45** is a plate.

[0072] In one embodiment, the recognition element **45** is a label, for example adhesive or double-adhesive.

[0073] In one embodiment, the tracking device **4** comprises a plurality of recognition elements **45**, each provided with the recognition code **43** that identifies the consumable product, e.g., contained or intended to be contained in the main chamber of the main container **2**.

[0074] In one embodiment, the recognition elements **45** are in a number equal to or greater than the number of filling cycles of the at least one secondary container **3**.

[0075] In one embodiment, the number of recognition elements **45** is calculated, approximating by default, by dividing the main volume of the main container **2** by the secondary volume of the secondary container **3**.

[0076] In one embodiment, the secondary container **3** is intended to perform a predefined maximum number of filling cycles of the secondary chamber, for example following the substantial emptying of the secondary chamber or after a predefined number of distribution cycles of consumer product to the end user or after a predefined period of time. The secondary container **3** is designed to perform at least two filling cycles of the secondary chamber, i.e. it is not a single-use container. Therefore, the secondary container **3** includes a tracking region **30** configured to accommodate at least two recognition elements **45**.

[0077] In one embodiment, the secondary container **3** comprises a tracking region **30** configured to accommodate a predefined maximum number of recognition elements **45** equal to the predefined maximum number of filling cycles.

[0078] In one embodiment, the tracking region **30** comprises predefined seats, e.g., special fields, e.g., numbered, for engaging the recognition elements **45**.

[0079] In one embodiment, the tracking region **30** is a free region of the secondary container **3** suitable for accommodating the recognition elements **45**.

[0080] Upon reaching the maximum number of filling cycles, the secondary container **3** must be temporarily or permanently decommissioned, i.e., it may not be reused for the distribution of the consumable product to the end user, for example it must be washed or sanitized or it must be disposed of.

[0081] For example, in one embodiment, the secondary container **3** is intended to perform a maximum of five filling cycles of the secondary chamber. In this embodiment, the tracking region **30** is configured to accommodate a maximum of five recognition elements **45**.

[0082] In one embodiment, the recognition element **45** is engaged to the main container **2** by snap coupling or by shape or force coupling or by gluing.

[0083] In one embodiment, the recognition element **45** is engaged to the main container **2** by a support **41** engaged and intended to remain engaged with the main container **2**.

[0084] For example, in one embodiment, the support **41** is glued or welded to the main container **2**. For example, the support **41** is a tag holder or a base sheet with which the recognition element **45** is reversibly engaged or engageable, for example from which the recognition element **45** is mechanically separable.

[0085] In one embodiment, the support **41** is made integrally, i.e., in a single piece, with the container walls of the main container **2**, for example in plastic materials by a co-molding or injection or casting molding process.

[0086] In one embodiment, the recognition element **45** is engaged to the support **41** by snap coupling or by shape or force coupling or by gluing.

[0087] In one embodiment, the recognition element **45** is engaged with the support **41** or with the main container **2** by a tearable portion, for example by manual action of the operator tasked with refilling, for example the recognition element **45** comprises a weakened portion.

[0088] In one embodiment, the recognition element **45** is configured or configurable to engage the secondary container **3** by gluing or by a snap coupling or a shape or force coupling.

[0089] In an initial state of the recognition element **45**, the recognition element **45** is engaged with the main container **2**, either directly or through the support **41**. In an intermediate state of the recognition element **45**, the recognition element **45** is disengaged from the main container **2** or from the support **41**. In a final state of the recognition element **45**, the recognition element **45** is engaged with the secondary container.

[0090] In one embodiment, the recognition element **45** in the intermediate state is unsuitable for engagement with the secondary container **3**, for example insofar as it comprises a removable adhesive covering layer that externally covers an adhesive connection portion. Starting from the intermediate state, the recognition element **45** is configurable in a second intermediate state, in which it is suitable for engagement with the secondary container **3**, for example by removing the outer adhesive covering layer and uncovering the adhesive connection portion.

[0091] In one embodiment, the main container **2** comprises a main distribution device **5** engaged with the main container **2**, configured to allow and/or prevent fluid communication between the environment outside of the main chamber and a dispensing opening in communication with the main chamber, for example located at the end of a neck, preferably threaded, of the main container **2**.

[0092] In one embodiment, the main distribution device **5** is a pump dispenser, for example manual or automated, fluidly connected to the main chamber.

[0093] In one embodiment, the main distribution device **5** is a valve.

[0094] In one embodiment, the main distribution device **5** is a cap.

[0095] In one embodiment, the main distribution device **5** comprises a threaded attachment portion.

[0096] In one embodiment, the main distribution device **5** comprises at least one auxiliary recognition element **55** suitable for identifying the number of times the main distribution device **5** has been removed from a main container **2** and applied to another main container **2**.

[0097] Preferably, the auxiliary recognition element **55** is engaged with the main distribution device **5** in a separable or deformable or tearable or pierceable or otherwise breakable manner, to visually signal to the operator a change in the state of use of the main distribution device **5**.

[0098] In one embodiment, the auxiliary recognition element **55** is provided with an auxiliary recognition code **53** that identifies the number of times the main distribution device **5** has been removed from a main container **2** and engaged with another main container **2**.

[0099] In one embodiment, the main distribution device **5** is intended to be reused a predefined maximum number of reuses, i.e., a maximum number of times wherein the main distribution device **5** has been removed from a main container **2** and engaged with another main container **2**.

[0100] Upon reaching the maximum number of filling cycles, the main distribution device **5** must be temporarily or permanently decommissioned, i.e., it may not be reused for the distribution of consumable product from the main chamber, e.g., it must be washed or sanitized or it must be disposed of.

[0101] In one embodiment, the main distribution device **5** comprises a number of auxiliary recognition elements **55** in a number equal to the maximum number of reuses of the main distribution device **5**.

[0102] The characteristics of the recognition element **45** associated with the consumable product described above are also applicable to the auxiliary recognition element **55**.

[0103] The characteristics of the recognition code **43** associated with the consumable product described above are also applicable to the auxiliary recognition code **53** associated with the distribution device.

[0104] In one embodiment, the main distribution device **5** comprises an auxiliary support body **59**, for example planar in shape, made of paper or plastics or metal, on which the auxiliary recognition elements **55** are identified (printed, drawn, or folded) in the form of regions of the auxiliary support body **59** capable of being separated, ripped, torn, pierced, or deformed. Preferably, the auxiliary support body **59** is supported by the main distribution device **5**, for example by a suction tube **51** of the manual pump.

[0105] Following a filling of the secondary chamber of the secondary container **3** with consumable product coming from the main container **2**, the operator tasked with refilling operations separates, tears, deforms, rips, or pierces an auxiliary recognition element **55**. Before the secondary chamber of the secondary container **3** is filled with the consumable product coming from the main container **2**, if auxiliary recognition elements **55** to be torn or ripped are no longer available, the operator tasked with refilling operations does not perform the filling and instead decommissions the main distribution device **5**.

[0106] In one embodiment, the main container **2** comprises a handle **20** that may be used by the operator tasked with refilling the secondary container **3** to incline the main container **2**, facilitating the exit of consumable product from the main chamber, for example through the dispensing opening.

[0107] According to the present invention, the method for tracking the distribution of consumable product involves the use of the tracking system.

[0108] The method for tracking the distribution of consumable product provides for separating a recognition element **45** from the main container **2** and engaging it with the secondary container **3**, following a filling of the secondary chamber of the secondary container **3** with consumable product coming from the main chamber of the main container **2**.

[0109] In one embodiment, the method for tracking the distribution of consumable product provides for separating the main distribution device **5** from the main container **2**; engaging the main distribution device **5** with a second main container **2**; and separating an auxiliary recognition element **55** from the main distribution device **5** following the engagement of the main distribution device **5** with the second main container **2** or separating an auxiliary recognition element **55** from the main distribution device **5** before the engagement of the main distribution device **5** with the second main container **2**.

[0110] Preferably, the separation of the main distribution device **5** from the main container **2** is to be carried out following the complete emptying of the main container **2** or after a predefined period of time or after a predefined number of distribution cycles of consumable product coming from the main chamber.

[0111] Preferably, the second main container **2** lacks a main distribution device **5**, for example it comprises a guarantee cap that is removable before engaging the main distribution device **5**.

[0112] Preferably, the second main container **2** contains consumable product in its main chamber.

[0113] In one embodiment, the method for tracking the distribution of a consumable product provides for decommissioning the main distribution device **5** if the separate main distribution device **5** to be separated from the main container **2** has no auxiliary recognition elements **55**.

[0114] Innovatively, the system for tracking the distribution of consumable product and the method for tracking the distribution of consumable product fulfill the intended objects.

[0115] Advantageously, it is possible to track the origin of the refilled consumable product in a given container in a certain and reliable manner.

[0116] Advantageously, maximum safety is ensured for the consumer.

[0117] Advantageously, it is possible to cope with critical situations attributable to the consumption of consumable product, for example in the case of an allergic reaction, contamination of consumable product during distribution operations between containers, or in the case of accidental ingestion of consumable product.

[0118] Advantageously, it is possible to comply with the obligations imposed by the regulations relating to monitoring and distribution of consumable product and relating to refillable containers.

[0119] Advantageously, it is possible to monitor the life of the container or containers that are part of the tracking system.

[0120] Advantageously, the tracking system allows an ecological use of the containers, ensuring the level of safety required by the regulations.

[0121] Advantageously, compared with the same safety conditions ensured in the distribution chain of consumable product, the tracking system is more ecological.

[0122] Advantageously, it is possible to monitor the consumable product mix contained within a secondary container, since with each partial filling of the secondary chamber with a different batch of consumable product, a recognition element is engaged with such a secondary container.

[0123] Advantageously, it is possible to obtain the desired constant level of consumable product within a secondary container, ensuring maximum safety and traceability conditions.

[0124] Advantageously, the operators responsible for distributing consumable product and managing containers have at their disposal a structurally simple tracking system, as it comprises a limited number of components, and a highly intuitive tracking method, repeatable on a large scale and error-proof.

[0125] Advantageously, the main container has a lower ecological impact, since it has a lower impact by weight on the contained consumable product. The design of the packaging allows this ratio to be further improved; since the main container does not have an aesthetic function, it may therefore have larger dimensions that are typically not suitable for distribution to the end user.

[0126] It is clear that a person skilled in the art may make changes to the invention described above in order to meet incidental needs without departing from the scope of protection as described and claimed herein.

Claims

1. A tracking system for tracking a distribution of a cosmetic product, comprising: a main container provided with a main chamber having a main volume to contain or containing a stock of the cosmetic product, wherein the main container comprises a tracking device comprising a plurality of recognition elements, each recognition element of the plurality of recognition elements being provided with a recognition code that identifies the cosmetic product, and wherein the each recognition element is separably engaged with the main container and configured or configurable to engage a secondary container, when disengaged from the main container.

2. The tracking system of claim 1, further comprising at least one secondary container provided with a secondary chamber having a secondary volume smaller than the main volume to contain or containing the cosmetic product, wherein the at least one secondary container is intended to perform cycles of filling the secondary chamber for a predefined maximum number of filling cycles, and comprises a tracking region configured to contain a predefined maximum number of recognition elements, the predefined maximum number of recognition elements being equal to the predefined maximum number of filling cycles.

3. The tracking system of claim 2, wherein the at least one secondary container is designed to perform at least two filling cycles of the secondary chamber, the at least one secondary container comprising a tracking region configured to contain at least two recognition elements.

4. The tracking system of claim 1, wherein the each recognition element is engaged with the main container by a snap coupling, or a shape or force coupling, or is glued to the main container or is

made in a single piece with the main container.

5. The tracking system of claim 1, wherein the each recognition element is engaged with the main container by a support engaged and intended to remain engaged with the main container.

6. The tracking system of claim 1, wherein the each recognition element is configured or configurable to engage the at least one secondary container by gluing or by a snap coupling or a shape or force coupling.

7. The tracking system of claim 1, wherein the main container comprises a main distribution device engaged with the main container, wherein the main distribution device comprises at least one auxiliary recognition element engaged with the main distribution device, and wherein the at least one auxiliary recognition element is separable from the main distribution device or tearable or deformable or pierceable or breakable, to visually identify a number of times in which the main distribution device has been removed from the main container and applied to another main container.

8. A main distribution device engageable to a main container of the tracking system of claim 7.

9. A method for tracking a distribution of a cosmetic product, the method comprising: A) providing a tracking system for tracking the distribution of the cosmetic product, comprising: a main container provided with a main chamber having a main volume to contain or containing a stock of the cosmetic product, wherein the main container comprises a tracking device comprising a plurality of recognition elements, each recognition element of the plurality of recognition elements being provided with a recognition code that identifies the cosmetic product, and wherein the each recognition element is separably engaged with the main container and is configured or configurable to engage a secondary container, when disengaged from the main container, and wherein the main container contains the cosmetic product; and B) separating a recognition element of the plurality of recognition elements from the main container and engaging the recognition element with the secondary container following a filling of a secondary chamber of the secondary container with the cosmetic product from the main container.

10. A method for tracking a secondary container, the method comprising: A) providing a tracking system for tracking a distribution of a cosmetic product, comprising: a main container provided with a main chamber having a main volume to contain or containing a stock of the cosmetic product, wherein the main container comprises a tracking device comprising a plurality of recognition elements, each recognition element of the plurality of recognition elements being provided with a recognition code that identifies the cosmetic product, and wherein the each recognition element is separably engaged with the main container and configured or configurable to engage a secondary container, when disengaged from the main container, and at least one secondary container provided with a secondary chamber having a secondary volume smaller than the main volume to contain or containing the cosmetic product, wherein the at least one secondary container is intended to perform cycles of filling the secondary chamber for a predefined maximum number of filling cycles, and comprises a tracking region configured to contain a predefined maximum number of recognition elements, the predefined maximum number of recognition elements being equal to the predefined maximum number of filling cycles, wherein the tracking system comprises a plurality of secondary containers; B) selecting a secondary container of the plurality of secondary containers; wherein, if the tracking region of the secondary container contains a number of recognition elements less than the predefined maximum number of recognition elements, then C) filling the secondary chamber of the secondary container with the cosmetic product from the main container; and D) separating one recognition element of the plurality of recognition elements from the main container and engaging it to the tracking region of the secondary container, and wherein, if the tracking region of the secondary container contains recognition elements in the same number as the predefined maximum number of recognition elements, then E) dismissing the secondary container.

11. A method for tracking a main distribution device, the method comprising: A) providing a

tracking system for tracking a distribution of a cosmetic product, comprising: a main container provided with a main chamber having a main volume to contain or containing a stock of the cosmetic product, wherein the main container comprises a tracking device comprising a plurality of recognition elements, each recognition element of the plurality of recognition elements being provided with a recognition code that identifies the cosmetic product, wherein the each recognition element is separably engaged with the main container and configured or configurable to engage a secondary container when disengaged from the main container, and wherein the main container comprises a main distribution device engaged with the main container, wherein the main distribution device comprises at least one auxiliary recognition element engaged with the main distribution device, and wherein the at least one auxiliary recognition element is separable from the main distribution device or tearable or deformable or pierceable or breakable, to visually identify a number of times in which the main distribution device has been removed from the main container and applied to another main container; B) separating the main distribution device from the main container, wherein, if the main distribution device is provided with the at least one auxiliary recognition element, then C) engaging the main distribution device with a second main container; and D) separating or ripping or tearing or piercing or deforming the at least one auxiliary recognition element, following or prior to engagement of the main distribution device with the second main container, and wherein, if the main distribution device is devoid of the at least one auxiliary recognition element, then E) dismissing the main distribution device.
