

Dispenser with applicator

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Objective

To create a technology landscape report on **Dispenser with applicator for hand free applications**

- Identify market players with prolific IP activity in the technology area
- Segment the players by the industry they belong to

Note: This report is just a template and gives an indication of what the paid report contains. [Click here](#) for information to purchase the report

Background

In an era where value has become a consumer's main purchasing principle, beauty brands have to go the extra mile in order to secure a purchase. And with ever more sophisticated formulas and product claims being touted by manufacturers, packaging is playing a key role in promoting these additional benefits.



dispenser with applicator

From brushes and roller balls to rotating mascaras, manufacturers have elevated the humble cosmetic applicator to a "beauty tool", claimed to help increase the efficacy of skin care products or even enabling consumers to recreate complex make-up looks in one easy application.^[1]

Dispenser ? A container so designed that the contents can be used in prescribed amounts.

Applicator ? A device for applying a substance.

Dispenser with applicator ? It means a container provided with applicator.

The dispenser-applicator holds a large quantity of product (lotion). The lotion dispenser-applicator dispenses an identical amount of lotion each time the pump is depressed so the user obtains exactly the desired amount of lotion on the applicator. The lotion is dispensed onto the exterior surface of the porous pad.



dispenser with applicator

The lotion dispenser-applicator is especially useful in applying soaps, moisturizers, creams, sunscreens, gels, and the like to parts of the body that are hard to reach. However, the lotion dispenser-applicator is also useful in applying other types of soaps, cleaners, conditioners, and the like to other surfaces. For example, the lotion dispenser-applicator is useful in applying cleaners and conditioners to hard-to-reach surfaces in automobiles, boats, and in the home. [2]

Now-a-days consumers, and in particular women, are trying to recreate at home the techniques and results a professional aesthetician or make-up artist would produce but they need the right beauty tools to do that.

The opportunity to create applicators for the delivery of a novel formula as well as applicators to help create a beneficial effect to the consumer is huge.

Women are becoming more and more educated about beauty and how to apply their products ? they want something beautiful but it needs to function. A make-up palette doesn't just jump onto your face ? you need the right tools to create the desired look. [3]

Types of Dispenser with Applicator

1. Tubes (Lami tubes with sponge tip).
2. Containers with brush.
3. Roll-On applicators.
4. Applicator that can be filled with cosmetic product and directly applied to human body.

Advantages

1. Allows application even to parts of the body that are hard to reach.
2. Prevents hand and fingers of the user from getting in touch with the product (lotion).
3. Adds value to product and packaging.

Concept Table

| S.No. | English | | | | | | German | French | |
|-------|--------------|--------------|-----------------------|-----------|--------------|--------------|---------------|--------------------------|--|
| | Dispenser | Applicator | Lotion | Dispenser | Applicator | Lotion | Dispenser | Applicator | Lotion |
| 1 | Dispens*3 | Applicator*1 | Lotion*1 | Spender | Applikator | Lotion | distributeur | appliqueur | lotion |
| 2 | discharger*1 | roll adj2 on | body adj2 lotion*1 | Spender | Applikatoren | Lotionen | distributeurs | appliqueurs | lotions |
| 3 | container*1 | roll-on | sunscreen*1 | Entlader | Roll on | Körperlotion | déchargeur | rouler adj sur adj la | lotion adj pour adj le adj corps |
| 4 | | **** | **** | **** | **** | **** | **** | **** | **** |
| 5 | | **** | **** | **** | **** | **** | **** | **** | **** |

• An indicative list of terms to show how a concept table is generated. View paid report for complete list.

• Concept Table was enriched by searches related to Dispenser with applicator from relevant patents, scientific articles and various thesauri

Class Codes Definitions

IPC Class Definition

IPC Classes for Dispensers

| Class | Definition |
|----------|--|
| A | human necessities |
| A45 | hand or travelling articles |
| A45D | hairdressing or shaving equipment; manicuring or other cosmetic treatment |
| **** | **** |
| B | performing operations; transporting |
| B65 | conveying; packing; storing; handling thin or filamentary material |
| B65D | containers for storage or transport of articles or materials, e.g. bags, barrels, bottles, boxes, cans, cartons, crates, drums, jars, tanks, hoppers, forwarding containers; accessories, closures, or fittings therefor; packaging elements; packages |
| **** | **** |
| **** | **** |

IPC Classes for Applicators

| Class | Definition |
|------------|------------|
| B65D 35/00 | **** |
| **** | **** |

IPC Classes for Lotions

| Class | Definition |
|-------|-------------------|
| A | HUMAN NECESSITIES |
| A61 M | **** |
| **** | **** |
| **** | **** |

US Class Definition

US Class for Dispensers

| Class | Definition |
|-------|---|
| 401 | coating implements with material supply |
| 137 | **** |

US Class for Applicators

| Class | Definition |
|-------|---|
| 401 | coating implements with material supply |
| **** | **** |
| **** | **** |

US Class for Lotions

| Class | Definition |
|-------|--|
| 514 | drug, bio-affecting and body treating compositions |

| | |
|------|------|
| **** | **** |
|------|------|

ECLA Class Definition

ECLA Classes for Lotions

| Class | Definition |
|-------|--|
| A | HUMAN NECESSITIES |
| A61 | medical or veterinary science; hygiene |
| A61Q | **** |
| **** | **** |
| **** | **** |

IPC and ECLA classes of all 3 concepts

| Class | Definition |
|------------|---|
| A45D 34/04 | Appliances specially adapted for applying liquid, e.g. using roller or ball |
| **** | **** |
| **** | **** |
| **** | **** |

F TERM

F Term for Dispensers

| F Theme | Definition | View Point | F term | Definition |
|---------|---|------------|-----------|------------|
| 3E014 | Containers and packaging bodies having a special means to remove contents | PD | 3E014PD11 | Pump types |
| | | | **** | **** |
| **** | Packages | BA | **** | **** |
| | | | **** | **** |

F Term for Applicators

| F Theme | Definition | View Point | F term | Definition |
|---------|------------|------------|-----------|------------|
| **** | **** | **** | 3E084LG03 | by rollers |
| | | | **** | **** |
| | | | **** | **** |

F Term for Lotions

| F Theme | Definition | View Point | F term | Definition |
|---------|------------|------------|-----------|---|
| 4C083 | Cosmetics | CC | 4C083CC04 | Lotions |
| | | | **** | **** |
| | | | **** | **** |
| | | DD | 4C083DD31 | Emulsion type (Cream shapes, lotion shapes) |
| **** | **** | **** | **** | |

• An indicative list of various class codes used for the IP search. View paid report for complete list.

Search Strategy

Thomson Innovation Search

Search with English Keywords

Search Engine: Thomson Innovation

Timeline: 01/01/1991 - 11/08/2011 (mm/dd/yyyy)

Patent Coverage: US, DWPI, FR, WO, EP, JP,CN, KR, DE, GB

| S.No. | Comment | Search Query | Search by | No. of hits | INPADOC Family No. |
|-------|--|---|---|-------------|--------------------|
| 1 | Dispenser keywords and Applicator keywords and classes of lotion | ((Dispens*3) or (discharger*1)or **** AND (A61Q001904 or A61Q001908 or ****)) | (Claims, Title or Abstract) AND ((Any IPC or ECLA) OR US Class)) | 4370 | 1315 |
| 2 | Applicator keywords and Lotion keywords and classes of Dispenser | ((Applicator*1) or (roll adj2 on)or (roll-on) or ****) AND ((Lotion*1)or (body adj2 lotion*1) or ****) AND ((B65D007558 or ****)) | (Claims, Title or Abstract) AND (text field) AND ((Any IPC or ECLA) OR US Class)) | **** | **** |
| 3 | Dispenser keywords and Lotion keywords and classes of Applicator | **** | (Claims, Title or Abstract) AND (text field) AND ((Any IPC or ECLA) OR US Class)) | **** | **** |
| 4 | Class having all keywords | A45D004026B or **** | Any IPC or ECLA | **** | **** |

Search with German Keywords

Search Engine: Thomson Innovation

Timeline: 01/01/1991 - 11/08/2011 (mm/dd/yyyy)

Patent Coverage: DE, WO, EP

| S.No. | Comment | Search Query | Search by | No. of hits | INPADOC Family No. |
|-------|--|--|---|-------------|--------------------|
| 1 | Dispenser keywords and Applicator keywords and classes of lotion | (Spender or Spender or ****) AND (A61Q001904 or ****) | (Claims, Title or Abstract) AND ((Any IPC or ECLA) OR US Class)) | 174 | 111 |
| 2 | Applicator keywords and Lotion keywords and classes of Dispenser | (Applikator or Applikatoren or ****)AND (Lotion or Lotionen ****) AND (B65D007558 or ****) | (Claims, Title or Abstract) AND (text field) AND ((Any IPC or ECLA) OR US Class)) | **** | **** |
| 3 | Dispenser keywords and Lotion keywords and classes of Applicator | **** | (Claims, Title or Abstract) AND (text field) AND ((Any IPC or ECLA) OR US Class)) | **** | **** |
| 4 | Class having all keywords | A45D004026B or **** | Any IPC or ECLA | **** | **** |

Search with French Keywords

Search Engine: Thomson Innovation

Timeline: 01/01/1991 - 11/08/2011 (mm/dd/yyyy)

Patent Coverage: FR, WO, EP

| S.No. | Comment | Search Query | Search by | No. of hits | INPADOC Family No. |
|-------|--|---|---|-------------|--------------------|
| 1 | Dispenser keywords and Applicator keywords and classes of lotion | (distributeur or distributeurs or ****AND ****AND (A61Q001904 or ****)) | (Claims, Title or Abstract) AND ((Any IPC or ECLA) OR US Class)) | 576 | 284 |
| 2 | Applicator keywords and Lotion keywords and classes of Dispenser | (applicateur or applicateurs or ****) AND (lotion or lotions ****) AND (B65D007558 or ****) | (Claims, Title or Abstract) AND (text field) AND ((Any IPC or ECLA) OR US Class)) | **** | **** |
| 3 | Dispenser keywords and Lotion keywords and classes of Applicator | **** | (Claims, Title or Abstract) AND (text field) AND ((Any IPC or ECLA) OR US Class)) | **** | **** |
| 4 | Class having all keywords | A45D004026B or **** | Any IPC or ECLA | **** | **** |

Search with F Terms

Search Engine: Thomson Innovation

Timeline: 01/01/1991 - 11/08/2011 (mm/dd/yyyy)

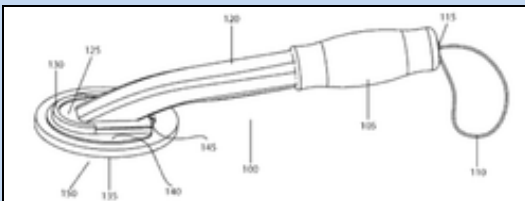
Patent Coverage: JP

| S.No. | Comment | Search Query | Search by | No. of hits | INPADOC Family No. |
|-------|--|---|---|-------------|--------------------|
| 1 | Dispenser keywords and Applicator keywords and classes of lotion | ((Dispens*3) or (discharger*1) or ****) AND (4C083CC04 or ****) | (Claims, Title or Abstract) AND (F term) | 144 | 125 |
| 2 | Applicator keywords and Lotion keywords and classes of Dispenser | ((Applicator*1) or (roll adj2 on) or (roll-on) or ****) AND ((Lotion*1) or (body adj2 lotion*1) ****) AND (3E067BA01 or ****) | (Claims, Title or Abstract) AND (text field) AND F term | **** | **** |
| 3 | Dispenser keywords and Lotion keywords and classes of Applicator | **** | (Claims, Title or Abstract) AND (text field) AND F term | **** | **** |
| 4 | Class having keywords except applicator and applicator Keywords | **** | (F term) AND (Claims, Title or Abstrac) | **** | **** |

Final Result

| S.No. | Final Search Query | No. oh hits | INPADOC family |
|-------|---|-------------|----------------------|
| 1 | ENGLISH or GERMAN or FRENCH OR F-TERM(JAPANESE) | **** | ****(****% Relevancy |

Relevant Patents (Sample Set)

| S.No. | Patent/Publication No. | Publication Year | Title | Assignee / Applicant | Image |
|-------|-------------------------------|------------------|---|-----------------------|---|
| 1 | US20090003917 | 2009 | BUOYANT ELONGATED LOTION APPLICATOR WITH AN EASY-TO-REPLACE, DISPOSABLE, INTERLOCKING PAD, A NON-SLIP ERGONOMIC HAND GRIP AND A SUPPORT STRAP | Duncan; Mary Heather; |  <p>US20090003917 Fig</p> |
| 2 | **** | **** | **** | **** | **** |
| 3 | **** | **** | **** | **** | **** |

Taxonomy

The description of container is categorized

[Dispenser_with_Applicator.mm](#)

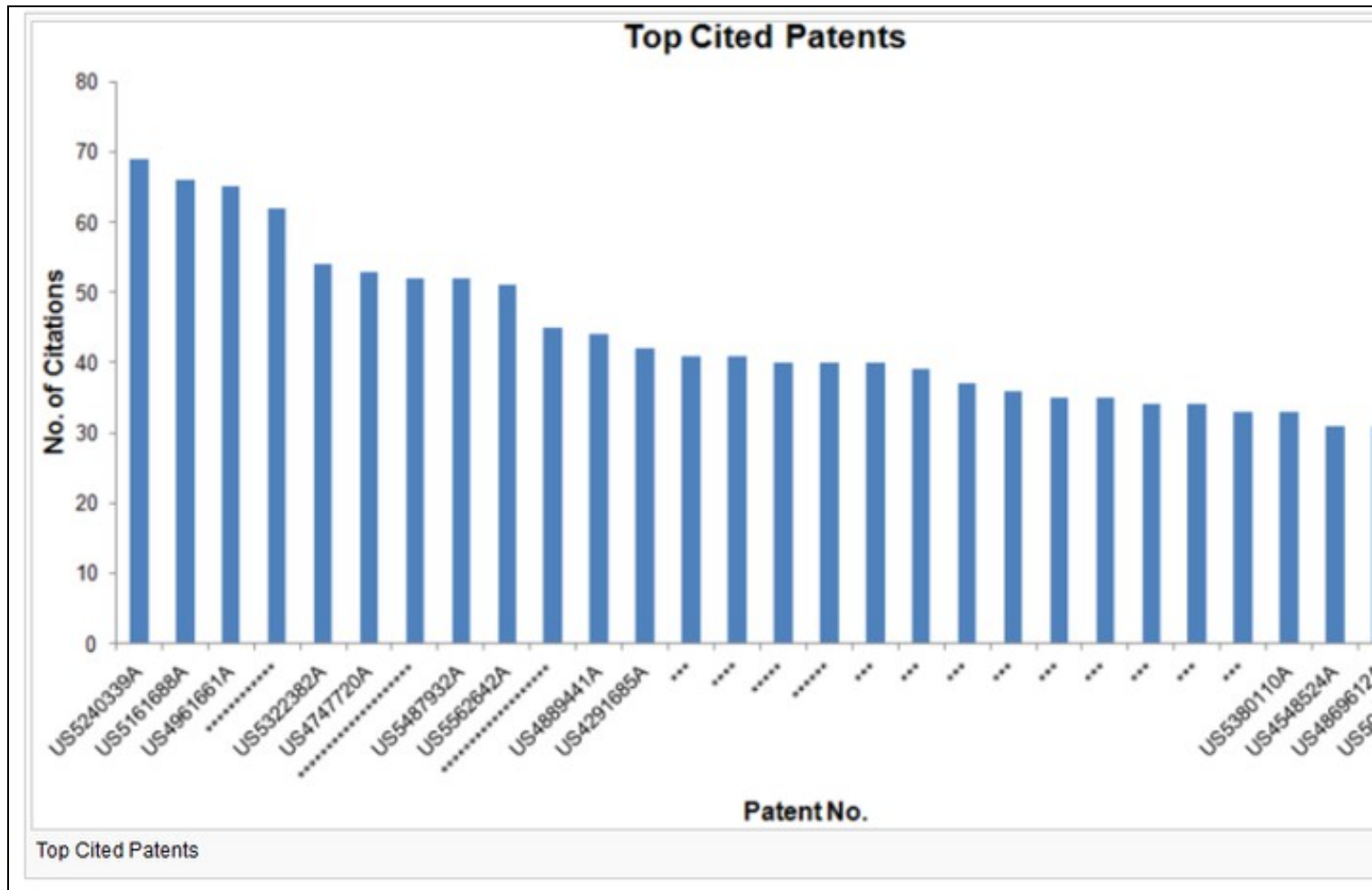
Flash plugin or Javascript are turned off. Activate both and reload to view the mindmap


Top Cited Patents

| S.No. | Publication NO. | Title | Assignee/Applicant | Count of Citing Patents |
|-------|-----------------|--|--------------------|-------------------------|
| 1 | US5240339A | Body lotion applicator with applicator head pivotally mounted on tubular extension arm | DEFOREST JULIE I | 69 |
| 2 | **** | **** | **** | **** |
| 3 | **** | **** | **** | **** |

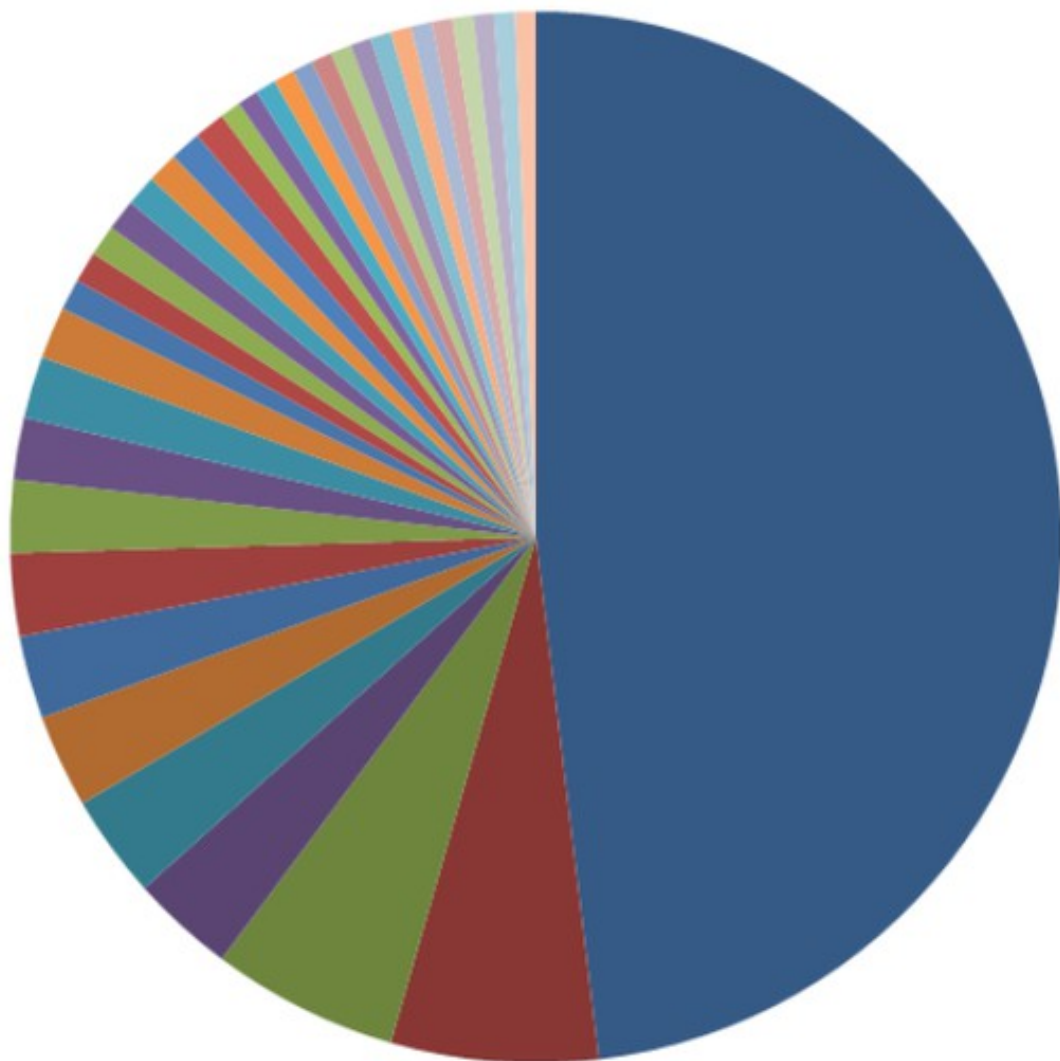
Assignee Analysis and IP Activity

- The following graphs explain the placement of the different assignees in this technology area.
- Labels for all the charts below are available in the paid report.
- Top Cited Patents



 Top Cited Patents

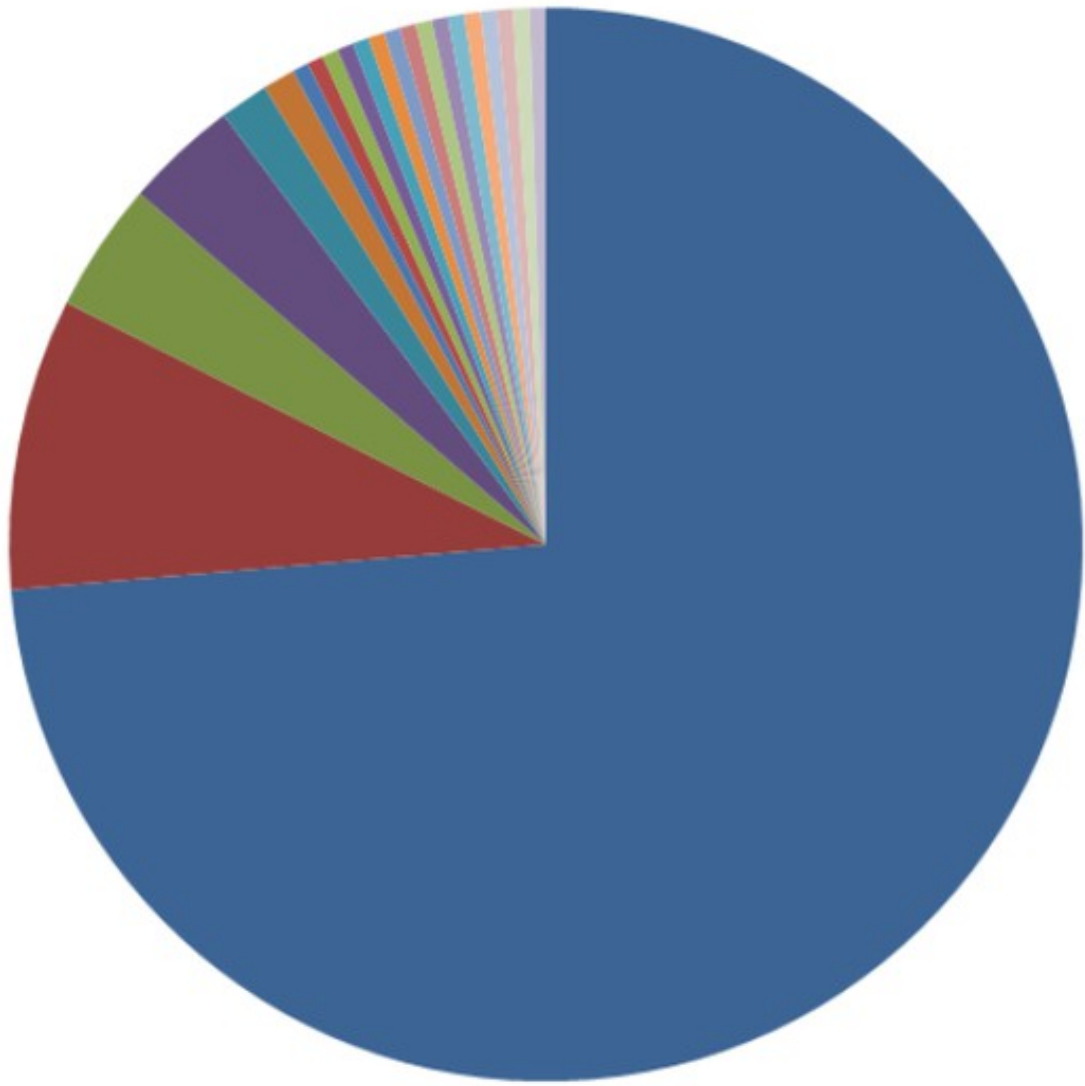
Top Assignees



Top Assignees in this technology area

Top Assignees in this technology area

Top Assignees in Cosmetic Companies

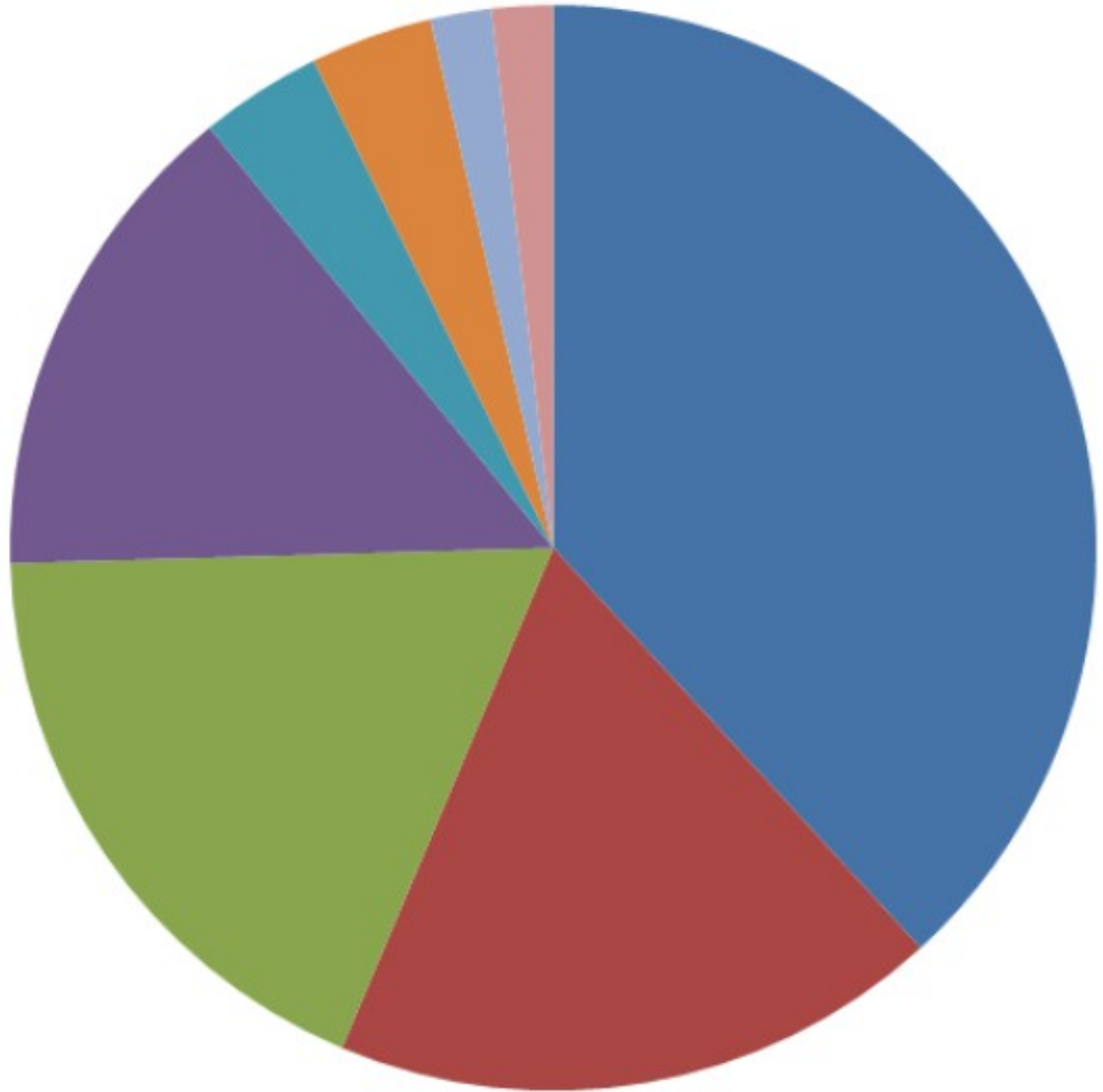


Assignees in Cosmetic Sector



Assignees in Cosmetic Sector

Top Assignees in FMCG



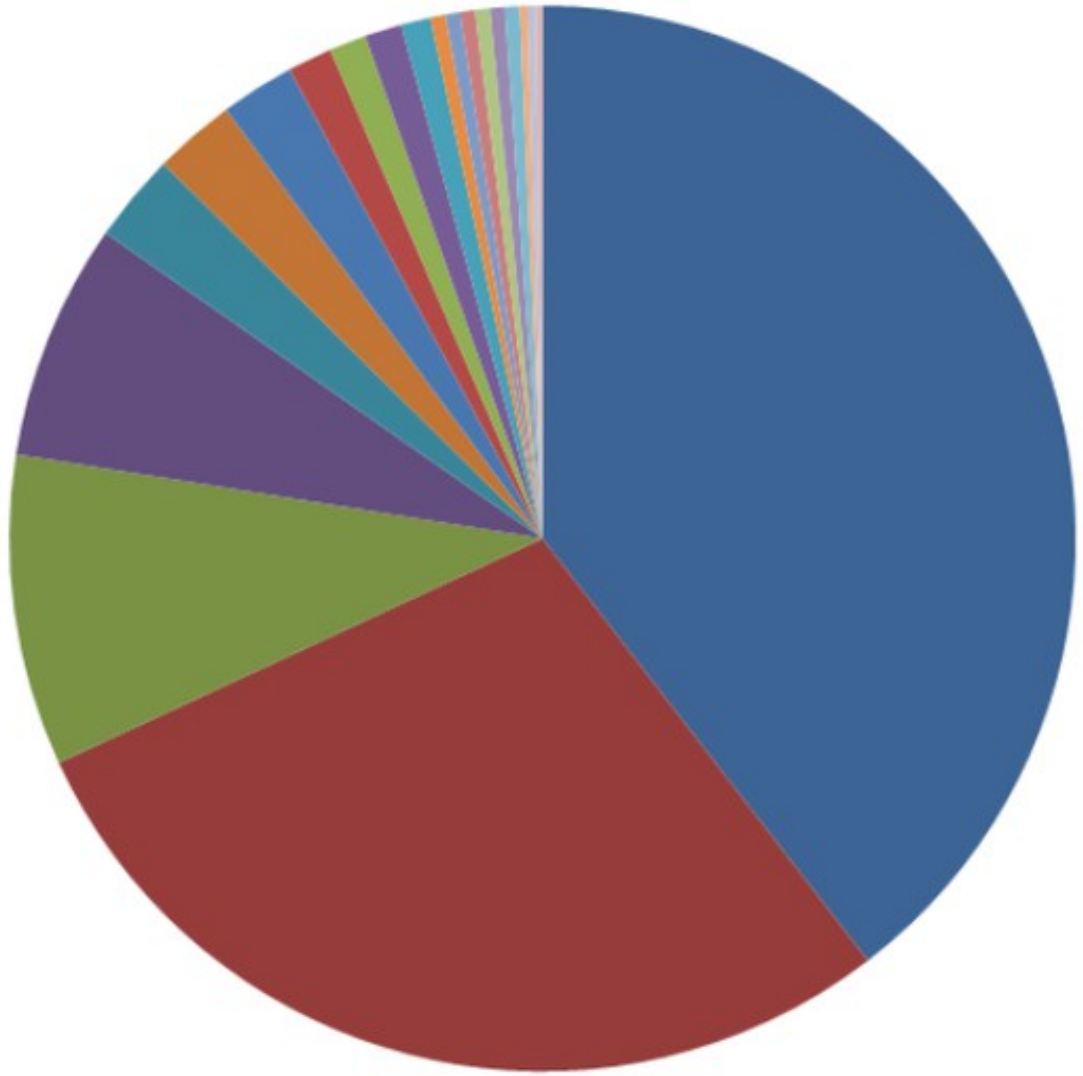
Assignees in FMCG



Assignees in FMCG

- Geographical distribution of Assignees

Geographical Distribution of Assignees



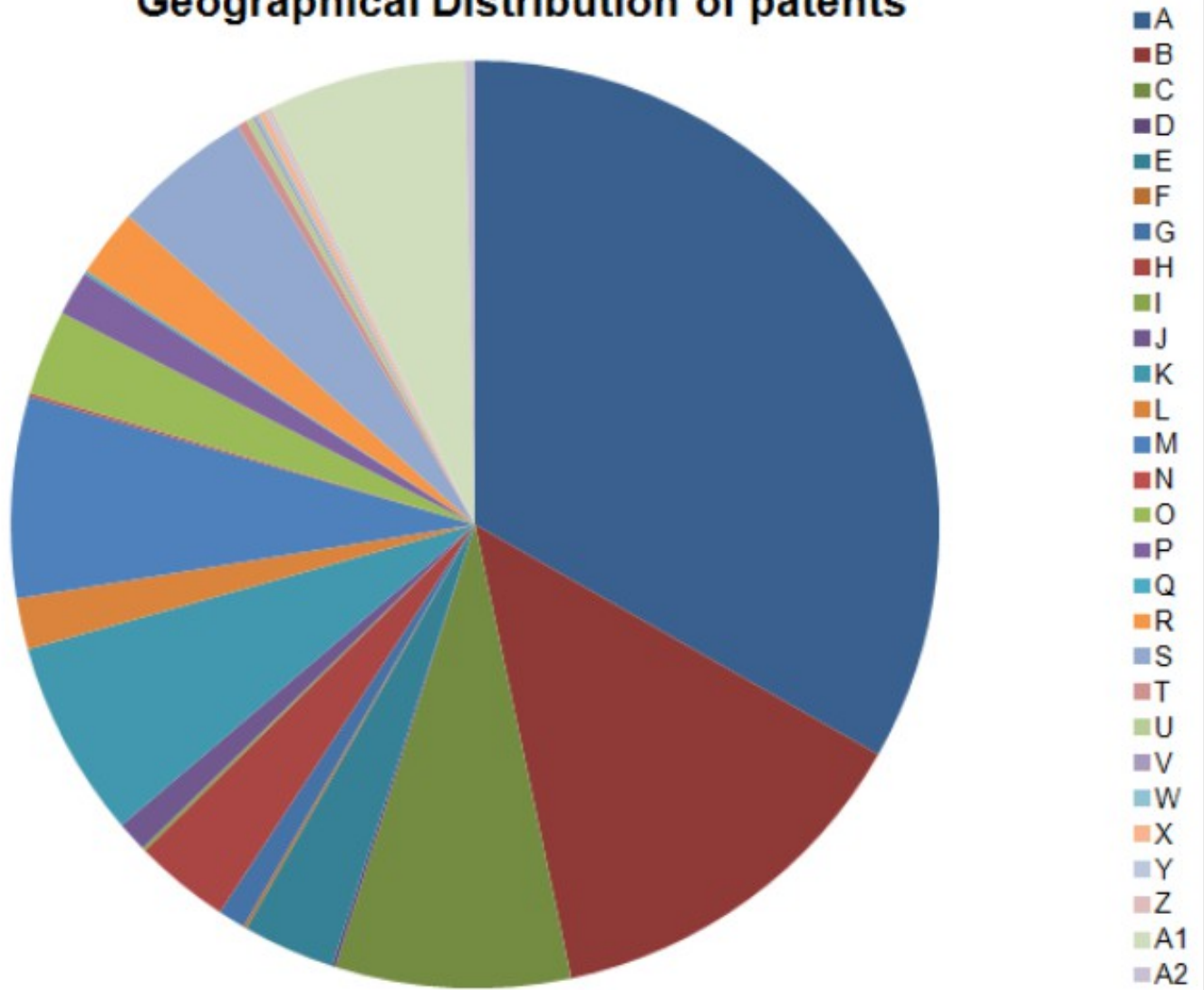
Geographical distribution of Assignees



Geographical distribution of Assignees

- Geographical distribution of Patents

Geographical Distribution of patents



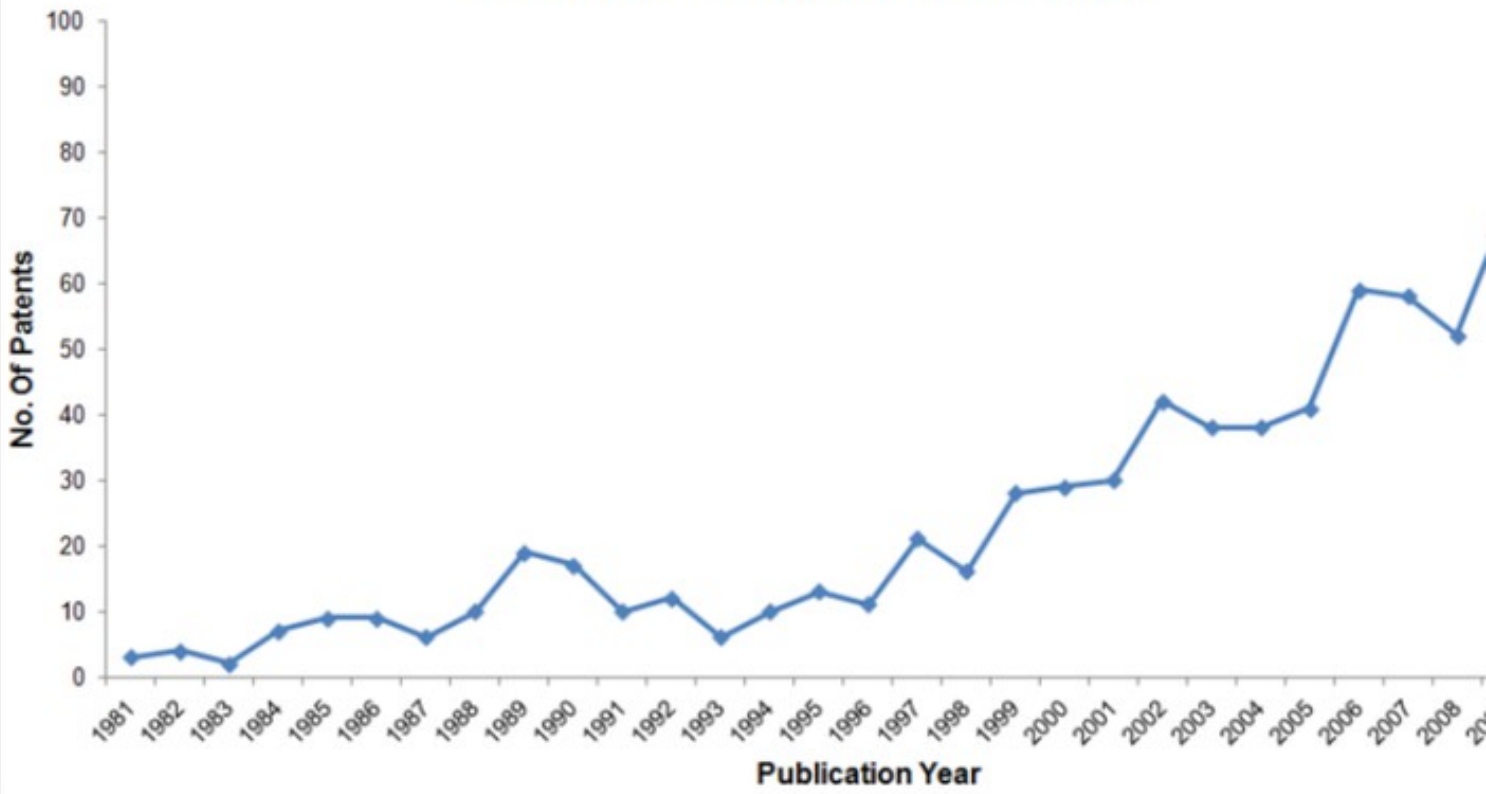
Geographical distribution of Patents



Geographical distribution of Patents

- The graphs given below explain the IP activity in this technology area over the years.

IP Activity based on Publication Year

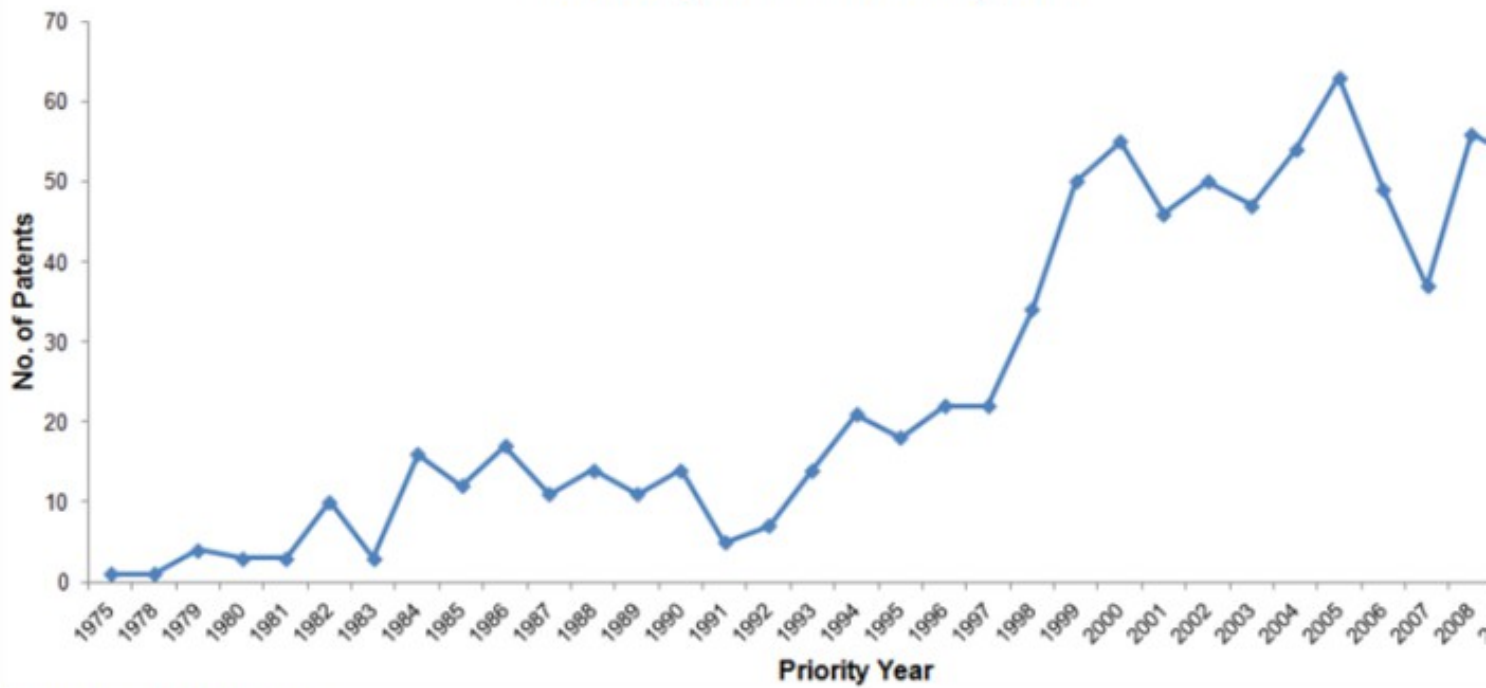


IP activity based on Publication Year



IP activity based on Publication Year

IP Activity based on Priority Year



IP activity based on Priority Year



IP activity based on Priority Year

Dashboard link

Assignees were categorized based on the type of their sectors like cosmetics, FMCG, Pharmaceuticals etc and their patents have been shown in the Dolcera Interactive Dashboard. A data preview of the dashboard is shown below:





A chart preview of the dashboard is shown below:



Patent Product Mapping

- Some products with respect to this technology area were identified and mapped to the patents from their respective assignees.

| S.No. | Publication No. | Title | Assignee | Product | Image |
|-------|------------------------------|---|---------------------------|---|--|
| 1 | WO2001034242 | APPLICATOR FOR MEDICINAL, THERAPEUTIC, PHARMACEUTICAL AND COSMETIC PREPARATIONS | HANDSFREE APPLICATORS INC | http://www.hfa-worldwide.com/ |   Handfree applicators inc Fig |
| 2 | ***** | **** | **** | **** | **** |
| 3 | ***** | **** | **** | **** | **** |