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	applicateur	lotion
2	discharger*1	roll adj2 on	body adj2 lotion*1	Spender	Applikatoren	Lotionen	distributeurs	applicateurs	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)

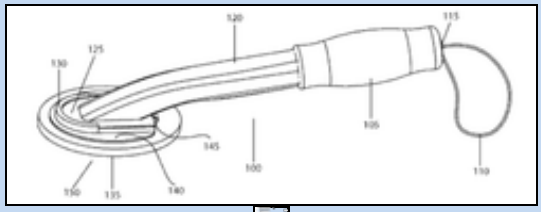
Patent Coverage: JP

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;	 **US20090003917 Fig**
2	****	****	****	****	****
3	****	****	****	****	****

Taxonomy

The description of container is categorized

```
.markmap-node {
    cursor: pointer;
}

.markmap-node-circle {
    fill: #fff;
    stroke-width: 1.5px;
}

.markmap-node-text {
    fill:  #000;
    font: 10px sans-serif;
}

.markmap-link {
    fill: none;
}

pre, .mw-code{
  background-color: transparent;
}
d3.xml("https://www.dolcera.com/wiki/images/Dispenser_with_Applicator.mm", function(error, data) {
    if (error) throw error;

    markmap("svg#mindmap_96d978eed96361133ccf41fb700b495b", data, {
```

```
            preset: "colorful",
            linkShape: "diagonal"
        }, "xml");
    });
```

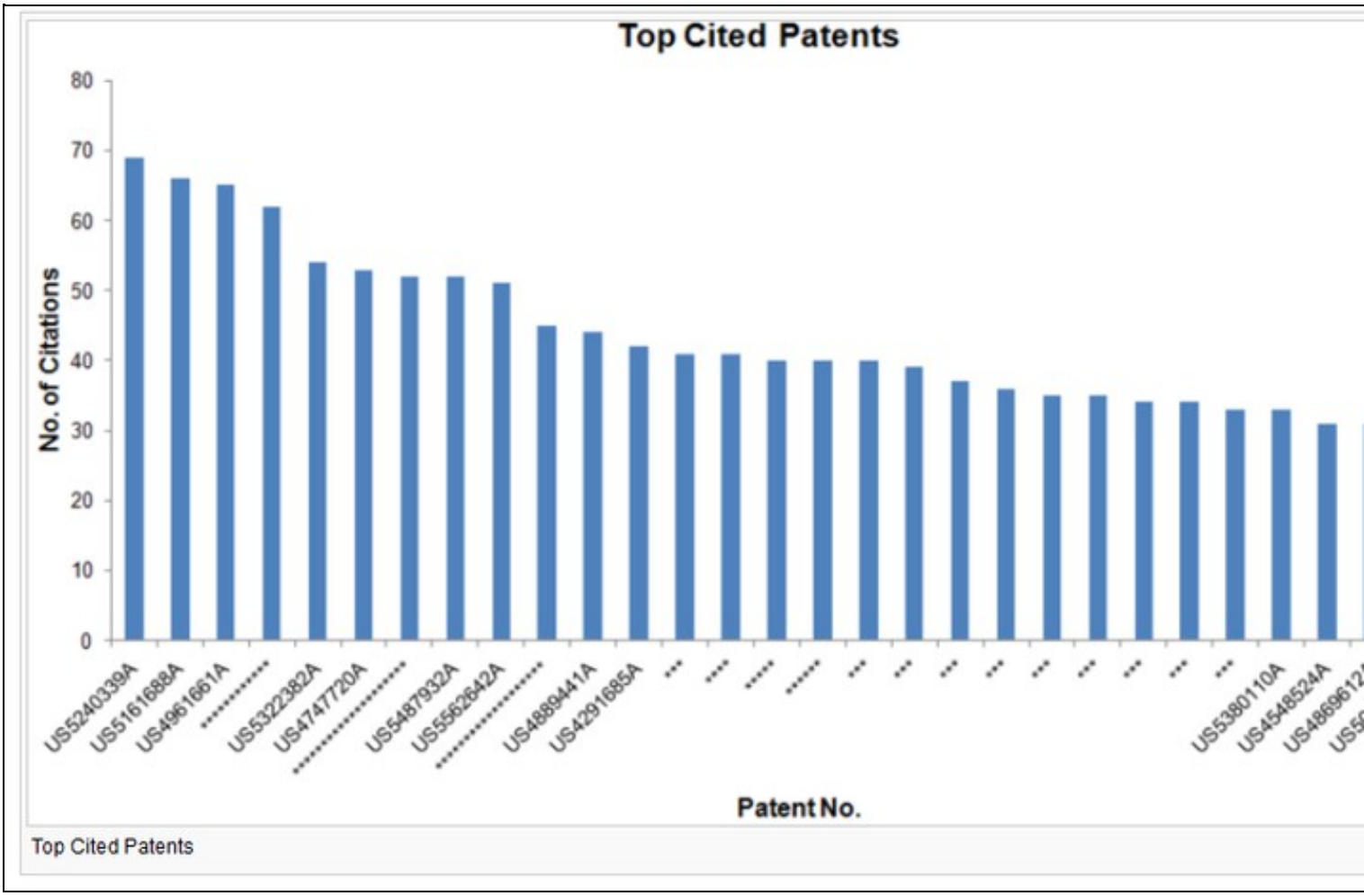
Top Cited Patents

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	****	****	****	****

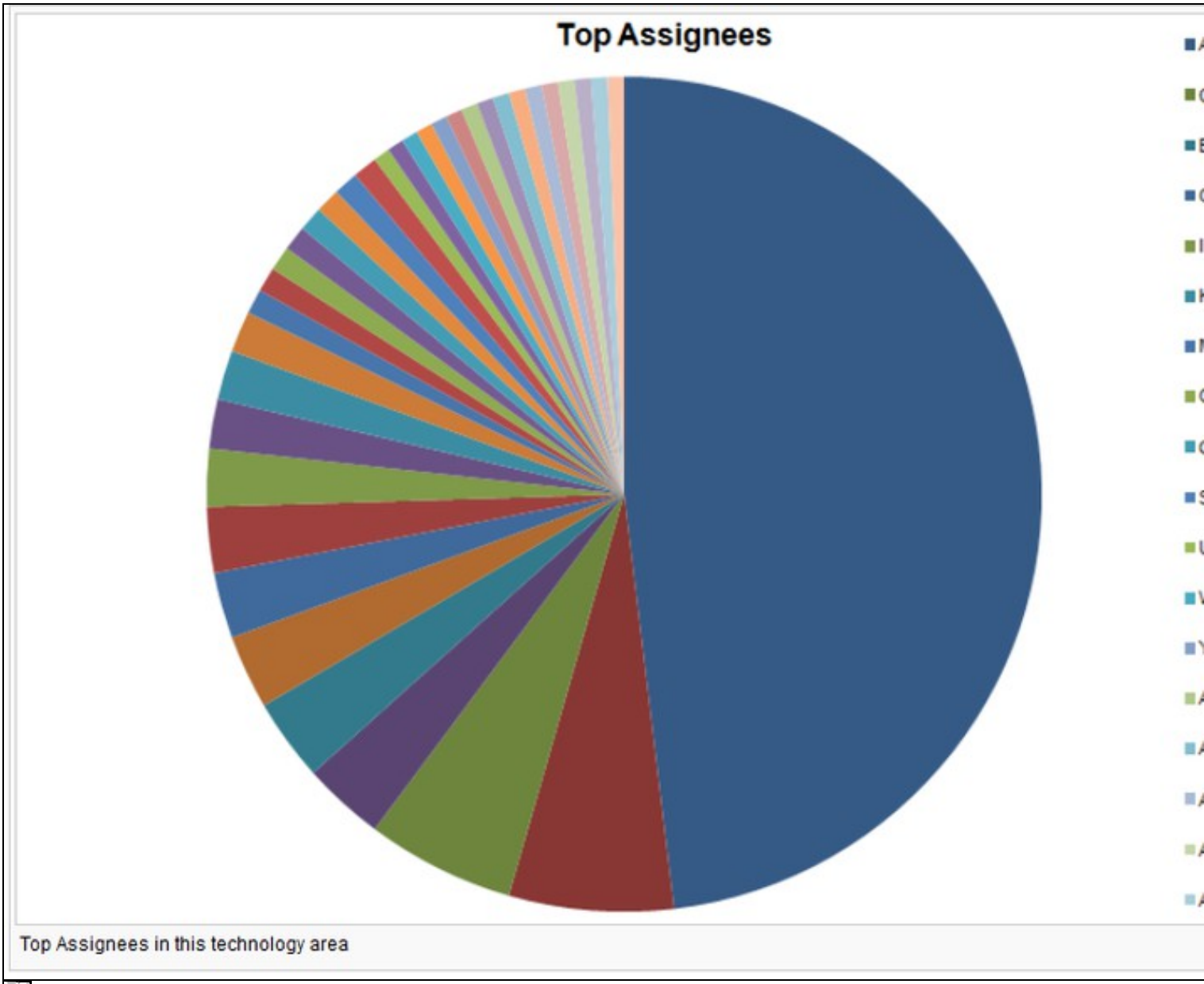
Assignee Analysis and IP Activity

- 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.*

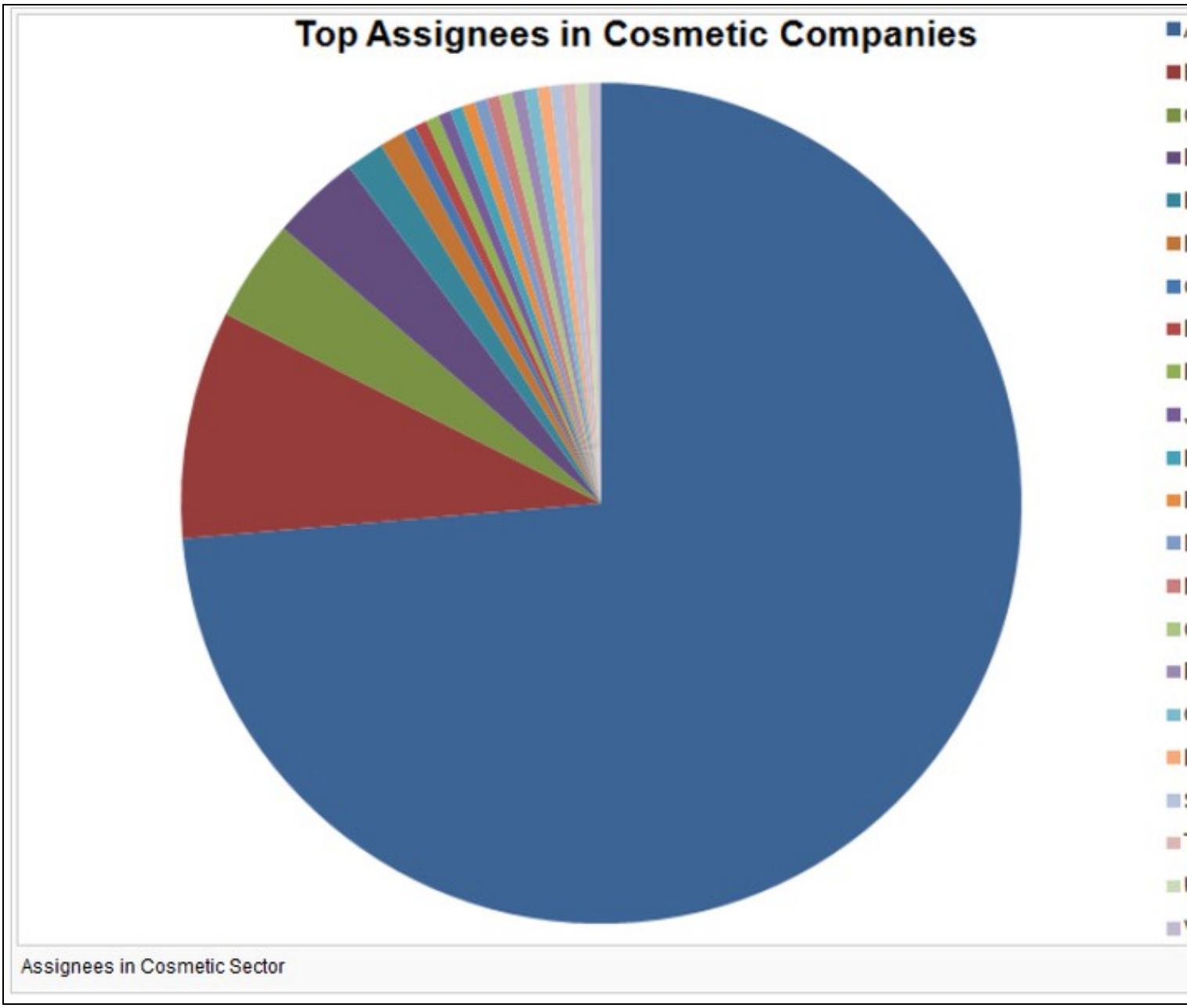
- **Top Cited Patents**



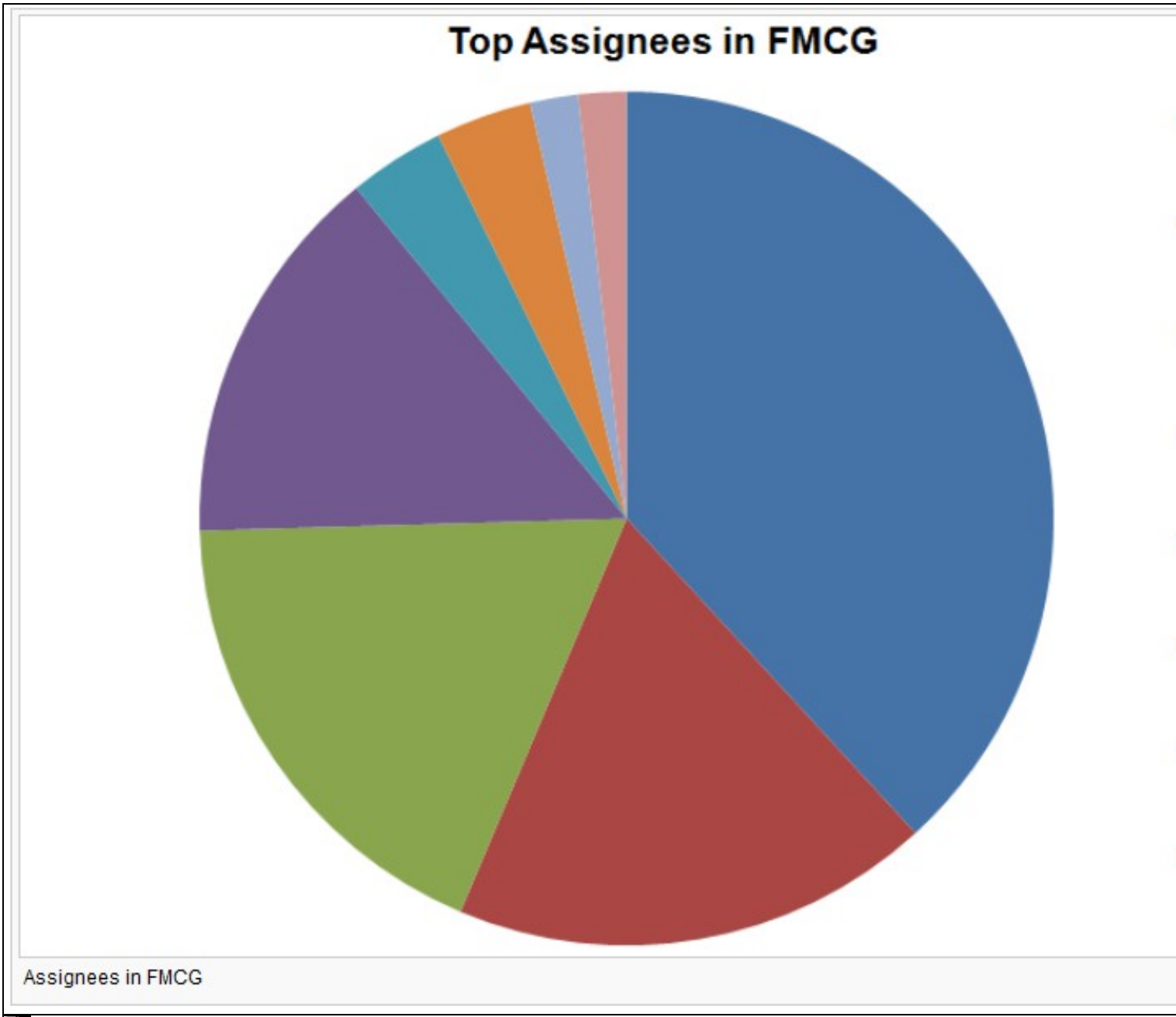
Top Cited Patents



Top Assignees in this technology area

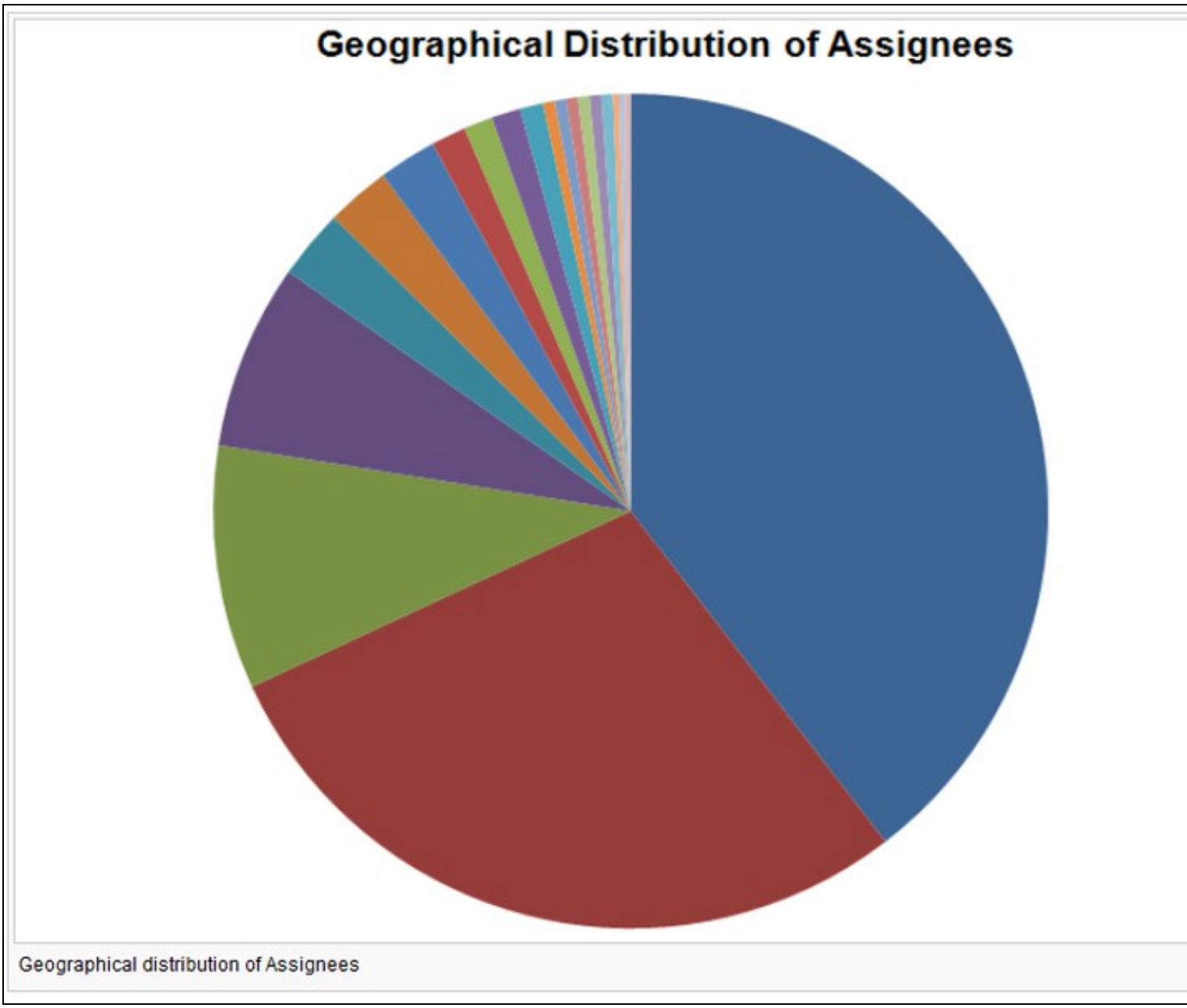


Assignees in Cosmetic Sector



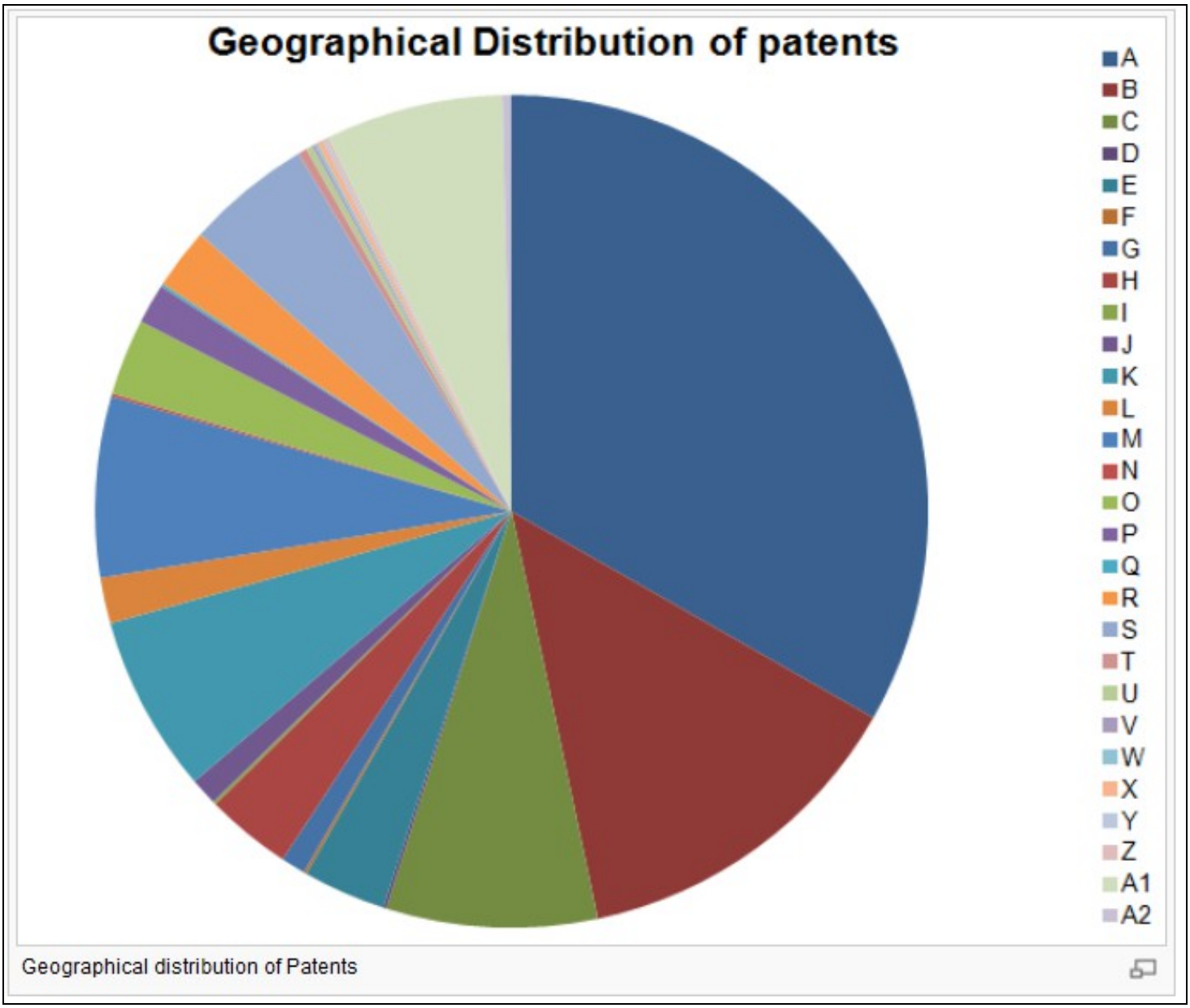
Assignees in FMCG

- **Geographical distribution of Assignees**



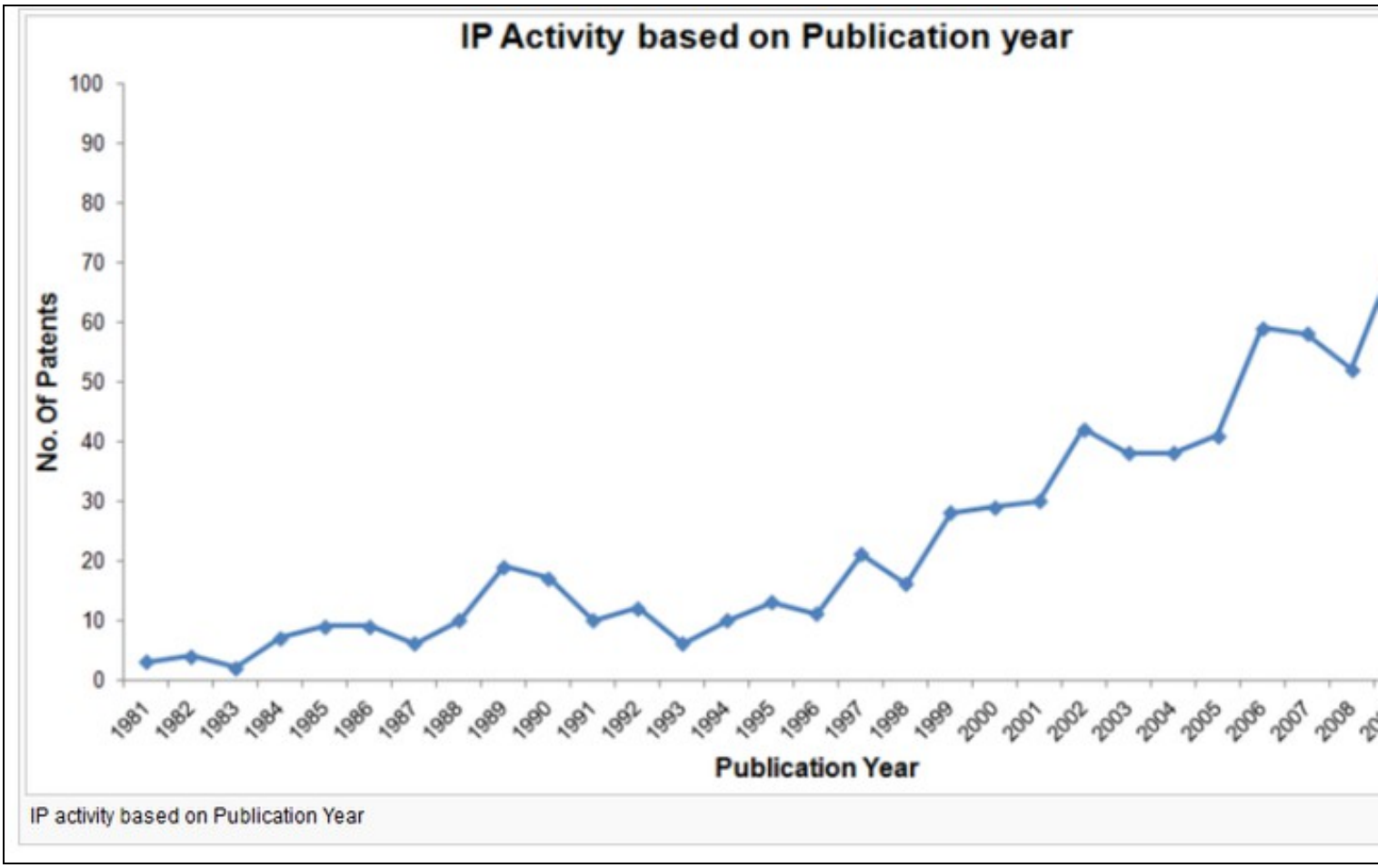
Geographical distribution of Assignees

- **Geographical distribution of Patents**

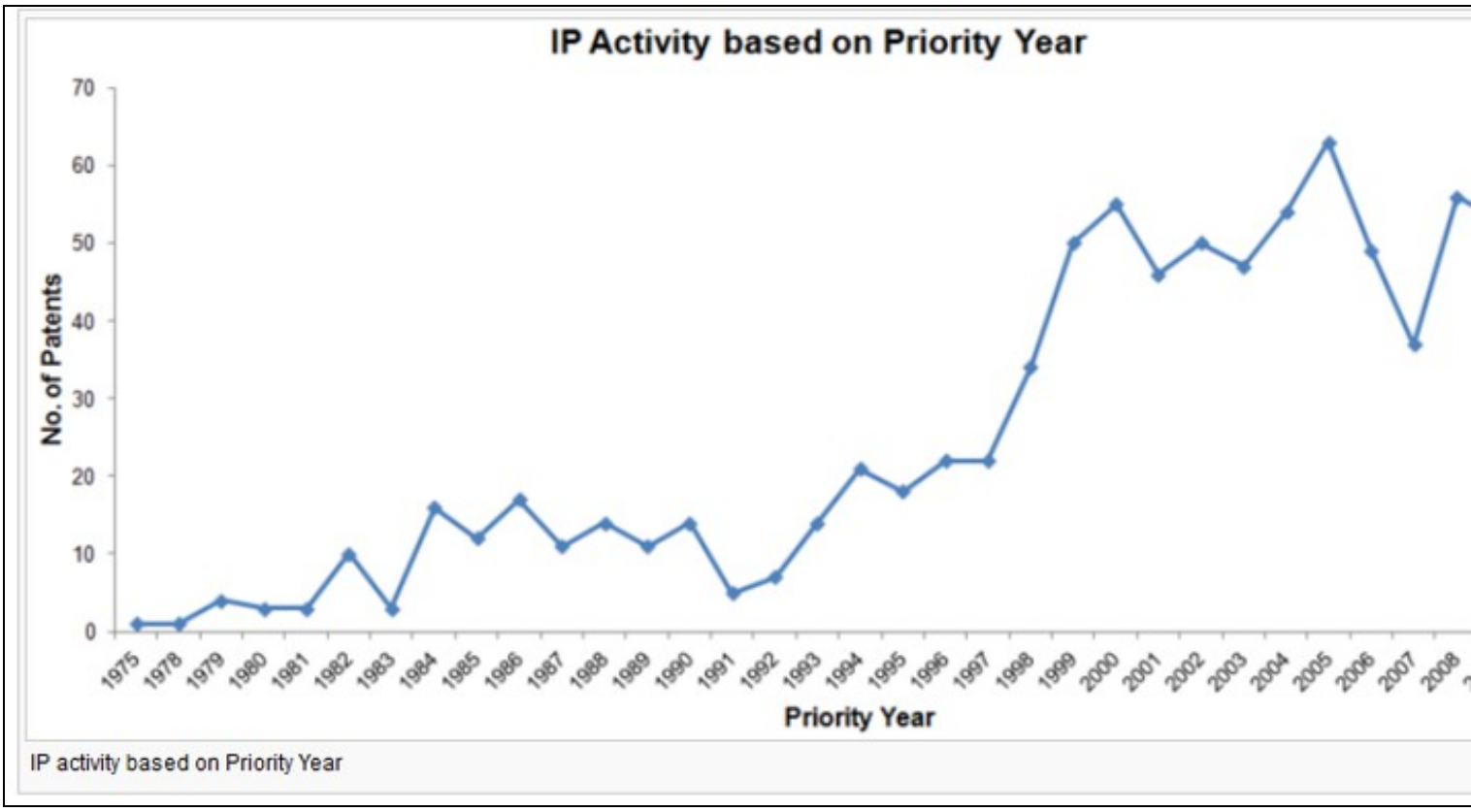


Geographical distribution of Patents

- **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 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:

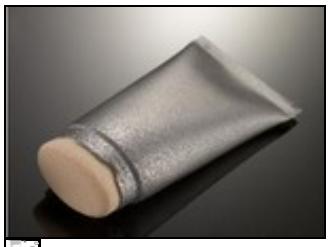


A chart preview of the dashboard is shown below:



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	*****	****	****	****	****