Non-wovens

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Introduction

Nonwoven textiles are those which are neither woven nor knit, for example felt. General use hyphenates the word, but industrial use spells it as one word. Non-wovens are typically not strong (unless reinforced by a backing or densified). In the recent years non-woven material has become an alternative to polyurethane foam.
Non-woven fabric is typically manufactured by putting small fibers together in the form of a sheet (web) and then binding them either mechanically (as in the case of felt, by interlocking them with serrated needles such that the inter-fiber friction results in a stronger fabric), with an adhesive, or thermally {by applying binder(in the form of powder, paste, or polymer melt) and melting the binder onto the web by increasing temperature}.

Raw material

Non-woven materials are nowadays mainly produced from man-made fibers. Two synthetic polymers dominate the market: polypropylene and polyesters (mainly PET). Nonwovens are often application-designated as either durable or disposable. Nonwoven used as a housewrap to prevent water infiltration is a durable nonwoven. Nonwoven used as a facing on a baby diaper is a disposable or single-use nonwoven.

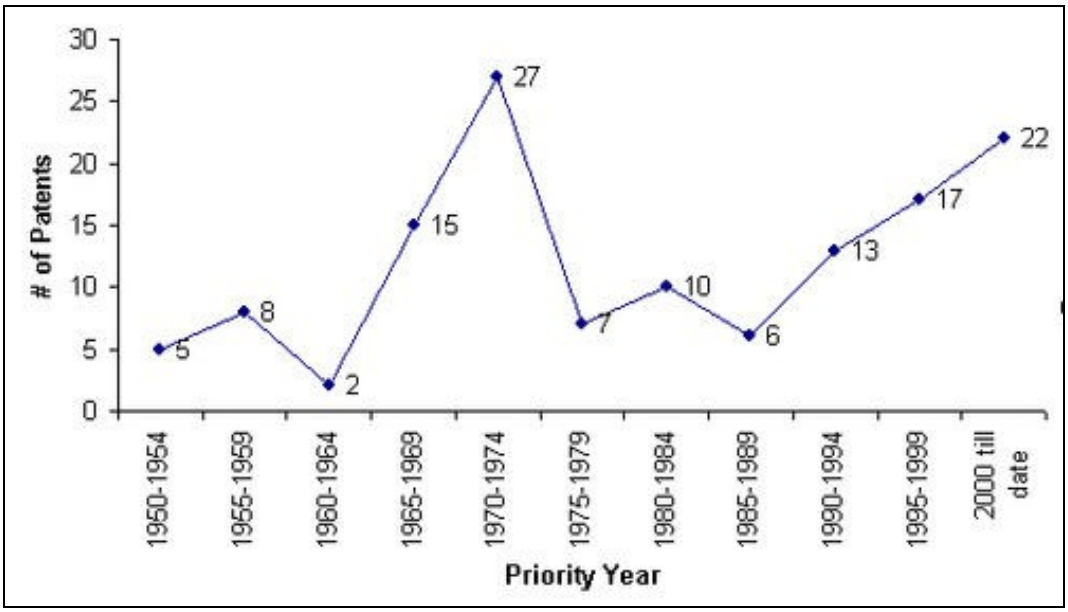
Application

Sample IP analysis

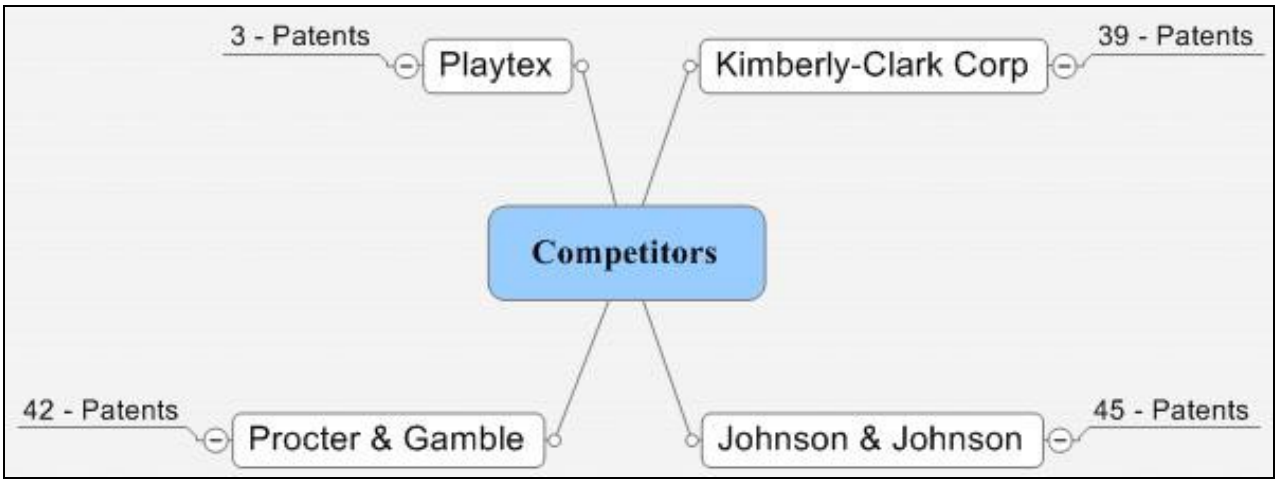
- **Area**: Baby diapers and Feminine hygiene.
- **Search**: Based on title, abstract and claims for some major companies in this field.

Year wise IP activity

- Based on title, abstract and claims for some major companies in this field.The graph is based on the patents of Kimberly-Clark Corp, Johnson & Johnson, Procter & Gamble, and Playtex from 1836 to 2006.

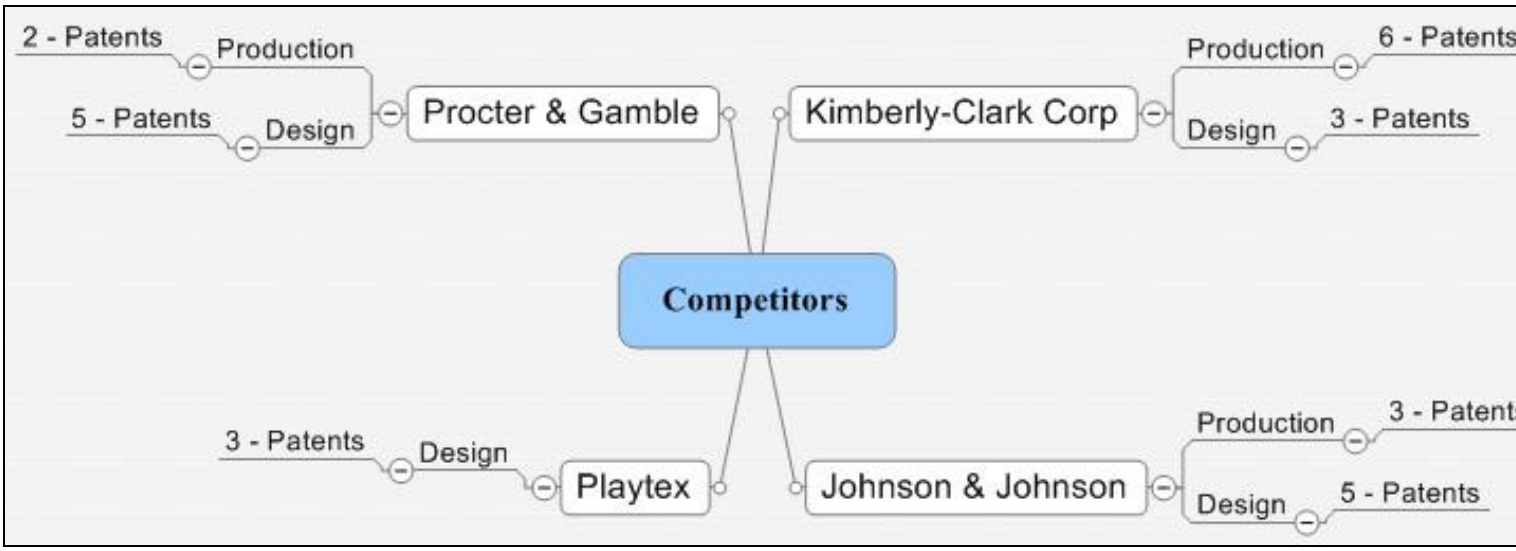


Year wise IP activity
Competitive analysis



Competitive analysis
Sample analysis of some patents

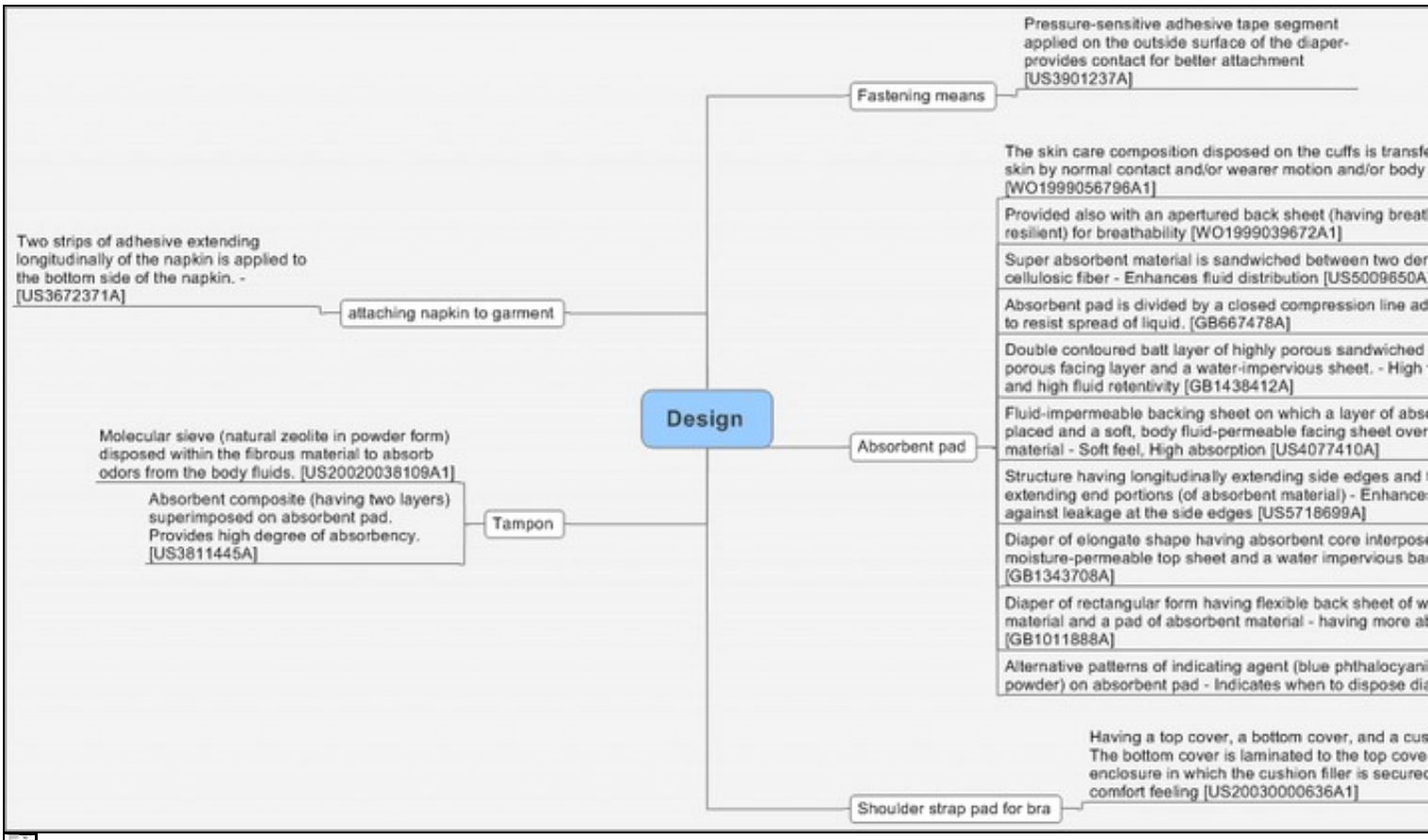
- This information is according to analysis of 27 patents.



Sample analysis
Design patents

- **Classification of Design patents**

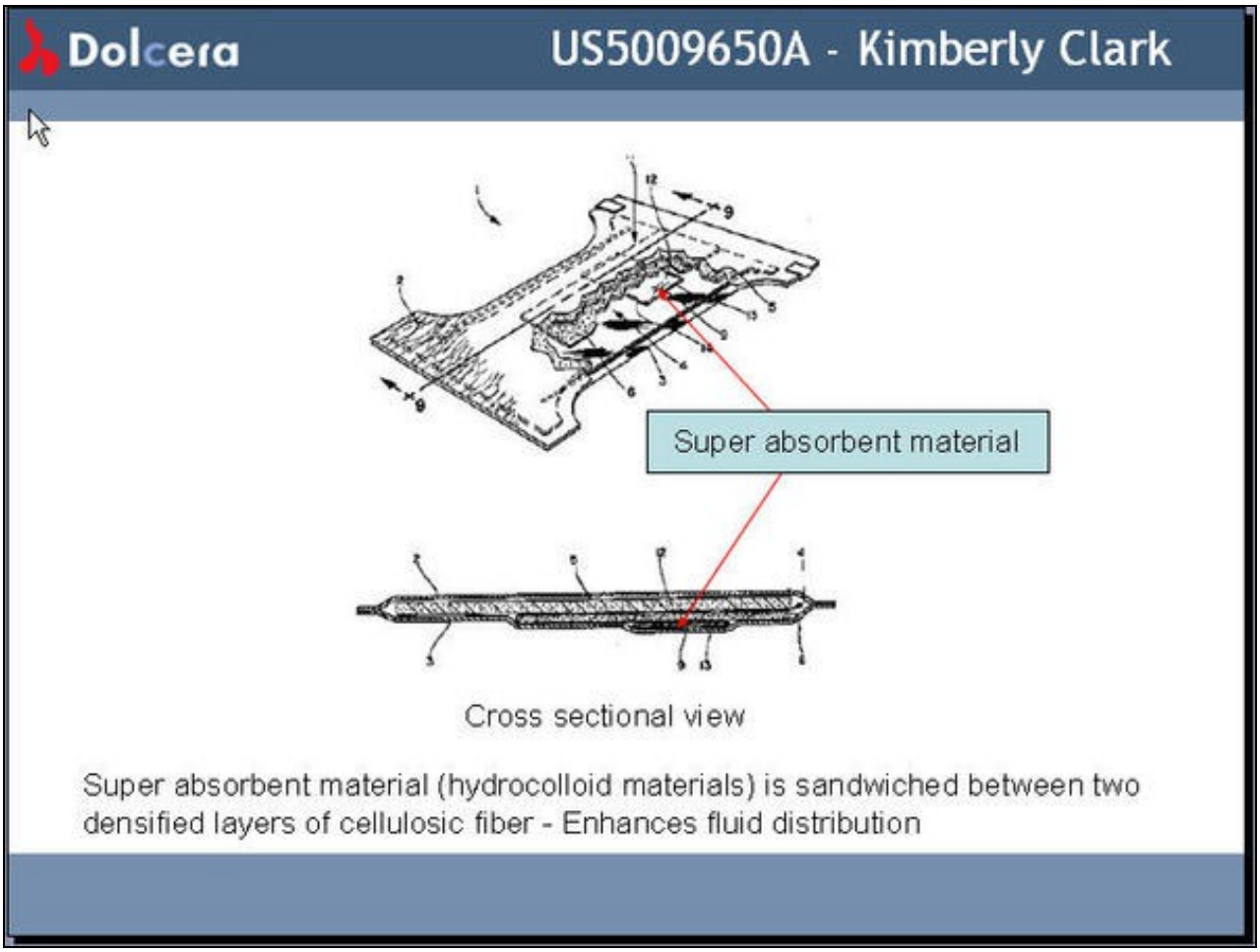
Design	Total records	Kimberly Clark	Procter & Gamble	Johnson & Johnson	Playtex
Absorbent pad	11	2	5	4	0
Attaching napkin to garment	1	1	0	0	0
Fastening means	1	0	0	1	0
Shoulder strap pad for bra	1	0	0	0	1
Tampon	2	0	0	0	2



Design patents

Pictorial analysis

Absorbent pad

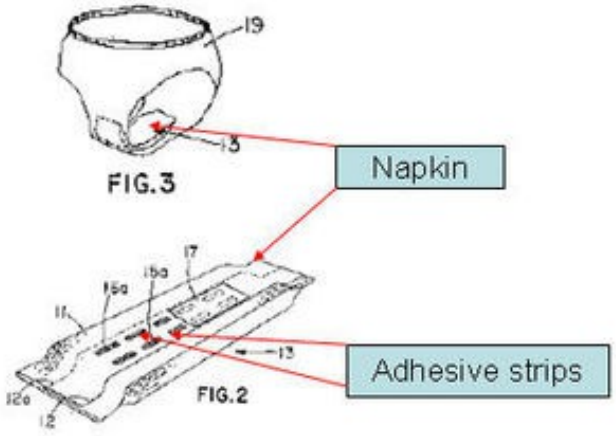




Attaching napkin to garment

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US3672371A - Kimberly Clark



Two strips of adhesive extending longitudinally of the napkin is applied to the bottom side of the napkin. – For better attachment of napkin to garment

Fastening means

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US3901237A - Johnson & Johnson

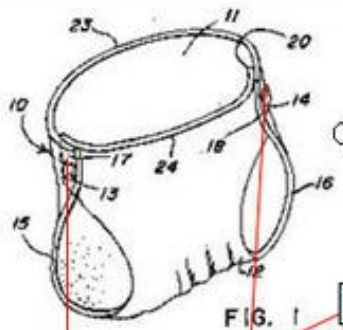
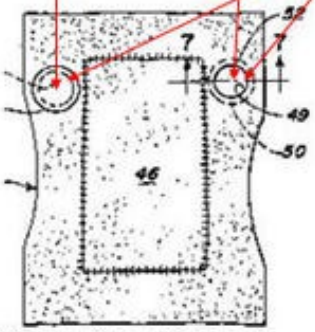


FIG. 1

Closed view of diaper

Pressure sensitive adhesive tap



Open view of diaper

Pressure-sensitive adhesive tape segment applied on the outside surface of the diaper. - contact for proper attachment
Adhesive surface of the fastening means is covered with a release sheet means which is readily removable upon use and preferably is permanently attached to the diaper – Adhesive material is not in contact with skin



Shoulder strap pad for bra

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US20030000636A1 - Playtex

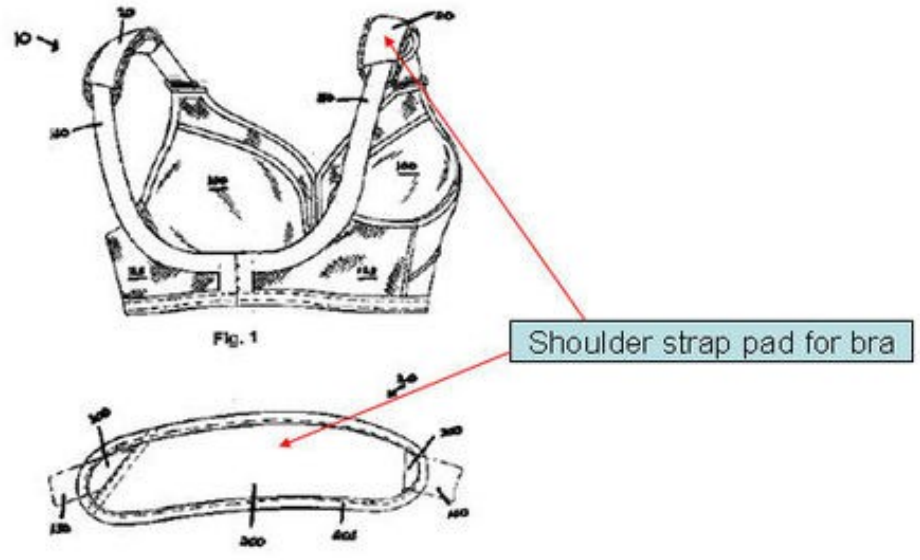
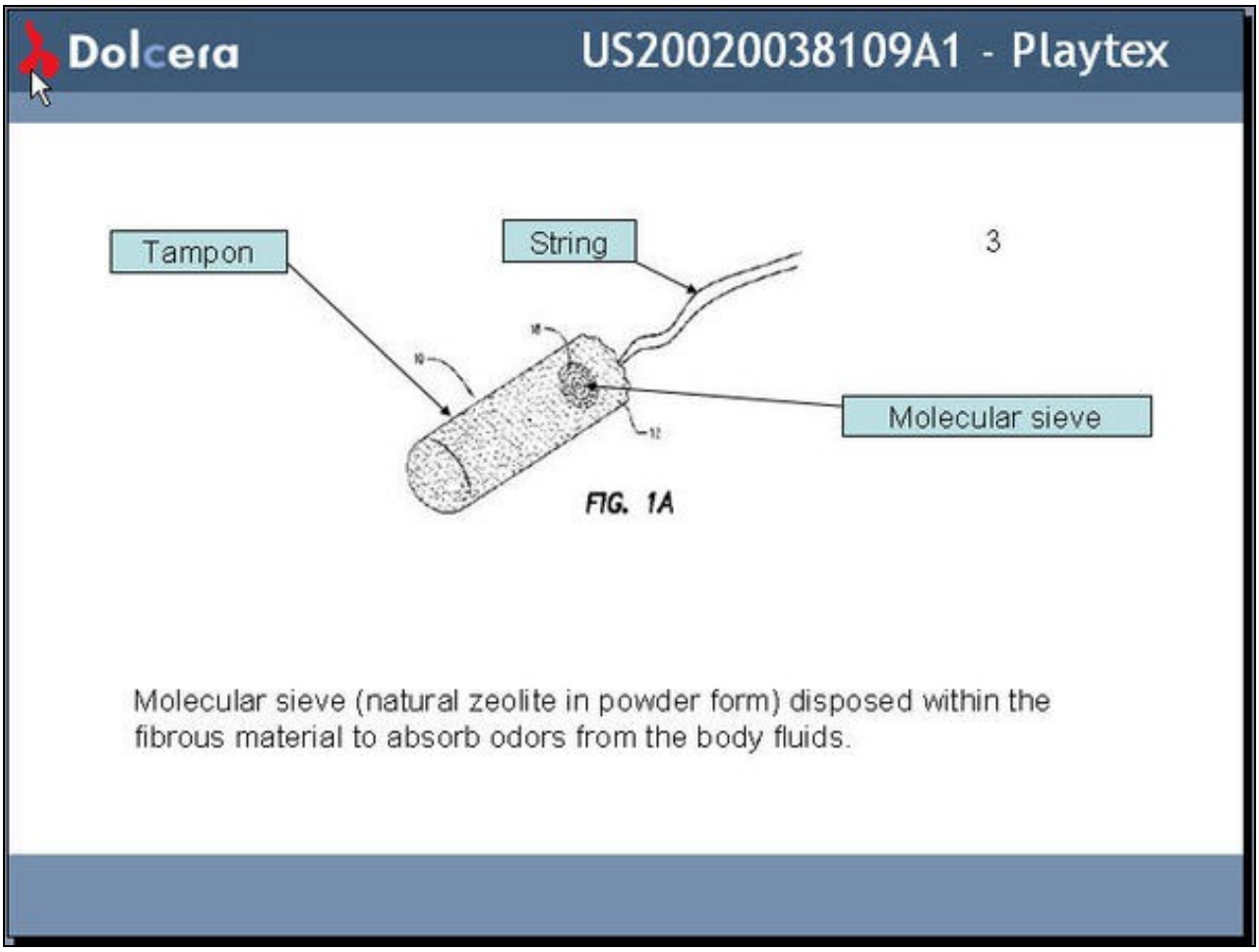


Fig. 1

Fig. 2

Shoulder strap pad for bra having a top cover, a bottom cover, and a cushion filler. The bottom cover is laminated to the top cover to form an enclosure in which the cushion filler is secured. - For comfort feeling

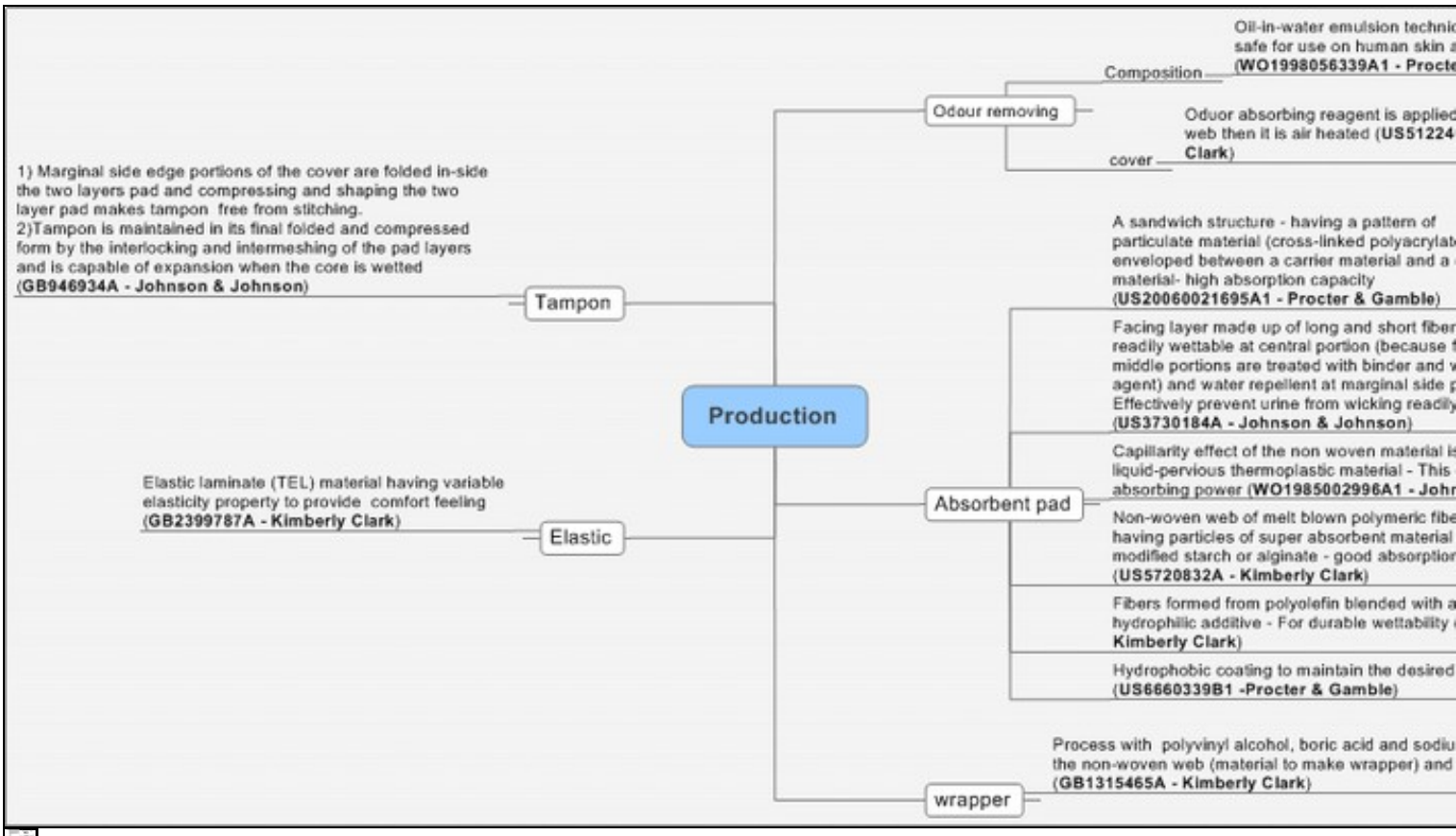
Tampon



Production patents

- **Classification of Production patents**

Production	Total records	Kimberly Clark	Procter & Gamble	Johnson & Johnson	Playtex
Absorbent pad	6	2	2	2	0
Odour removing composition	2	1	1	0	0
Wrapper	1	1	0	0	0
Elastic	1	1	0	0	0
Tampon	1	1	0	0	0



Production patents

Non Wovens for Skin care wipes

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