

## Title (en)

DISPOSABLE ABSORBENT ARTICLE EMPLOYING AN ABSORBENT COMPOSITE, AND METHOD OF MAKING THE SAME

## Title (de)

ABSORBIERENDER WEGWERFARTIKEL ENTHALTEND EINEN ABSORBIERENDEN VERBUNDWERKSTOFF UND VERFAHREN ZU SEINER HERSTELLUNG

## Title (fr)

ARTICLE ABSORBANT JETABLE UTILISANT UN COMPOSITE ABSORBANT ET PROCEDE DE FABRICATION ASSOCIE

## Publication

**EP 1231878 A4 20050119 (EN)**

## Application

**EP 00948728 A 20000714**

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## Abstract (en)

[origin: WO0105440A2] A disposable absorbent article includes a topsheet, a backsheet and an absorbent core disposed therebetween. One or more of the backsheet, topsheet, and absorbent core is constructed of an absorbent composite that includes an absorbent layer of hydratable fine fibers in the form of microfibril obtained from cellulose or a derivative thereof and super absorbent polymer (SAP) particles bonded together by the hydratable fibers, and a nonwoven substrate supporting the absorbent layer such as SMS. The absorbent layer is coated over the surface of the nonwoven substrate. The core may include one uniform layer of the absorbent composite or a composite having one layer of the nonwoven substrate and a plurality of segmented absorbent layers applied thereon. In the latter design, the absorbent layers are spaced apart from one another to expose surface sections of the substrate. These non-coated surface sections provide wicking zones which allow room for the absorbent layers to expand and prevent gel blocking.

[origin: WO0105440A2] A disposable absorbent article includes a topsheet (50), a backsheet (60) and an absorbent core (46) disposed therebetween. One or more of the backsheet, topsheet and absorbent core is constructed of an absorbent composite that includes an absorbent layer of hydratable fine fibers in the form of microfibril obtained from cellulose or a derivative thereof and super absorbent polymer (SAP) particles bonded together by the hydratable fibers and a nonwoven substrate supporting the absorbent layer such as SMS. The core may include one uniform layer of the absorbent composite or a composite having one layer of the nonwoven substrate and a plurality of segmented absorbent layers applied thereon. In the latter design, the absorbent layers are spaced apart from one another to expose surface sections of the substrate. These non-coated surface sections provide wicking zones which allow room for the absorbent layers to expand and prevent gel blocking.

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- [X] WO 9825999 A1 19980618 - JAPAN ABSORBENT TECH INST [JP], et al
- [PX] EP 0947549 A1 19991006 - JAPAN ABSORBENT TECH INST [JP]
- [A] US 4681577 A 19870721 - STERN BETH A [US], et al
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- [A] US 4055180 A 19771025 - KARAMI HAMZEH
- [X] PATENT ABSTRACTS OF JAPAN vol. 1999, no. 11 30 September 1999 (1999-09-30)
- [X] PATENT ABSTRACTS OF JAPAN vol. 1999, no. 05 31 May 1999 (1999-05-31)
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