

Title (en)  
A cleansing tissue

Title (de)  
Ein reinigendes Gewebe

Title (fr)  
Un tissu nettoyant

Publication  
**EP 1369517 A3 20040818 (EN)**

Application  
**EP 03253441 A 20030602**

Priority  
BR 0202023 A 20020603

Abstract (en)  
[origin: EP1369517A2] The present invention is related to a cleansing tissue, comprising a thermobonded non-woven fabric formed from a mixture of fibers containing greater than 75% of thermoplastic fibers, the non-woven fabric having a plurality of cells, each cell having a first density and a first volume, the cells being disposed adjacent to one another defining a region between adjacent cells, the region having a second density and a second volume, the second density being higher than the first density, and the second volume being less than the first volume. <??>The fabric becomes thicker and its softness is increased because the cells have a low density large sized regions.

IPC 1-7  
**D04H 1/00**

IPC 8 full level  
**D04H 1/54** (2006.01); **D04H 1/544** (2012.01)

CPC (source: EP US)  
**D04H 1/54** (2013.01 - EP US); **D04H 1/544** (2013.01 - EP US); **Y10T 442/614** (2015.04 - EP US); **Y10T 442/615** (2015.04 - EP US); **Y10T 442/69** (2015.04 - EP US); **Y10T 442/692** (2015.04 - EP US); **Y10T 442/697** (2015.04 - EP US); **Y10T 442/698** (2015.04 - EP US)

Citation (search report)

- [X] US 4436780 A 19840313 - HOTCHKISS HARRY W [US], et al
- [X] US 4865221 A 19890912 - JACKSON DAVID M [US], et al
- [X] US 4333979 A 19820608 - SCIARAFFA MICHAEL A, et al
- [X] EP 0127483 A2 19841205 - JOHNSON & JOHNSON [US]
- [A] EP 0596532 A1 19940511 - KIMBERLY CLARK CO [US]
- [A] EP 0472992 A1 19920304 - KIMBERLY CLARK CO [US]

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)  
**EP 1369517 A2 20031210; EP 1369517 A3 20040818**; AR 040243 A1 20050323; BR 0202023 A 20040302; CA 2430581 A1 20031203; CO 5400121 A1 20040531; MX PA03004943 A 20050214; US 2003228822 A1 20031211

DOCDB simple family (application)  
**EP 03253441 A 20030602**; AR P030101962 A 20030602; BR 0202023 A 20020603; CA 2430581 A 20030602; CO 03046005 A 20030530; MX PA03004943 A 20030603; US 44460703 A 20030523