

Title (en)

Dispenser of paper towels with central dispensing opening.

Title (de)

Innenabzug-Handtuchspender.

Title (fr)

Distributeur de papier essuie-mains à dévidage central.

Publication

EP 0480848 B1 19940105 (FR)

Application

EP 91420350 A 19911004

Priority

FR 9013008 A 19901012

Abstract (en)

[origin: EP0480848A1] This dispenser of paper towels with central unwinding is characterised in that the tray (3) is arranged around its central opening (3, 1) in the shape of a chimney (3, 2) rising up inside the body (1), the said chimney having the function of straightening the paper previously wound and crumpled during the unwinding inside the roll. <IMAGE>

IPC 1-7

A47K 10/38

IPC 8 full level

A47K 10/38 (2006.01)

CPC (source: EP)

A47K 10/3818 (2013.01)

Cited by

US5712210A; US6082663A; EP1005957A3; EP1008420A3; EP2583602A1; CN103889292A; AU2012324536B2; US6145782A; AU2005262681B2; AU2012388405B2; CN104684447A; US7040568B2; US6575397B1; WO9322964A1; WO0002475A1; US6629667B2; US7530460B2; US6964395B1; WO9707937A3; WO9721377A1; WO2006007256A1; WO2006124429A1; WO2014032706A1; WO2013057572A3; US6207246B1; US7806291B2; WO2012079627A1; US9572461B2

Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 0480848 A1 19920415; EP 0480848 B1 19940105; AT E99520 T1 19940115; DE 69100938 D1 19940217; DE 69100938 T2 19940428; DK 0480848 T3 19940314; ES 2048000 T3 19940301; FR 2667853 A1 19920417; FR 2667853 B1 19930806; PT 8843 T 19940131; PT 8843 U 19960229

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EP 91420350 A 19911004; AT 91420350 T 19911004; DE 69100938 T 19911004; DK 91420350 T 19911004; ES 91420350 T 19911004; FR 9013008 A 19901012; PT 884393 U 19930716