

Title (en)
Paper towel dispenser

Title (de)
Papierhandtuchspender

Title (fr)
Distributeur de serviettes en papier

Publication
EP 1232715 A3 20031022 (EN)

Application
EP 02250907 A 20020211

Priority
• US 78073301 A 20010209
• US 96627501 A 20010927
• US 96612401 A 20010927

Abstract (en)
[origin: EP1231823A1] A grounding mechanism and method for grounding a dispenser are provided, consisting in having an internal low-impedance path (2016) for electrostatic charges that build up during use of the dispenser. The electrostatic charges are discharged to a local ground to which the low-impedance path is connected.

IPC 1-7
A47K 10/36; H03K 17/955

IPC 8 full level
A47K 10/36 (2006.01); **H05F 3/02** (2006.01)

CPC (source: EP)
A47K 10/36 (2013.01); **A47K 10/3687** (2013.01); **H05F 3/02** (2013.01); **A47K 10/3612** (2013.01); **A47K 10/3625** (2013.01);
A47K 2010/3668 (2013.01); **A47K 2010/3681** (2013.01)

Citation (search report)
• [A] US 6069354 A 20000530 - ALFANO ROBERT R [US], et al
• [DA] US 3743865 A 19730703 - RIECHMANN W

Cited by
FR2872806A1; US6977588B2; US6903654B2; WO2006013241A1; DE202014000722U1; US11478111B2; US11864695B2; US8511598B2;
US7533845B2; US8298640B2; US8741410B2; US10835086B2; US9854948B1; US10390663B2; US10791885B1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
EP 1231823 A1 20020814; **EP 1231823 B1 20060802**; **EP 1231823 B2 20100811**; AT E310438 T1 20051215; AT E335388 T1 20060815;
DE 60202083 D1 20050105; DE 60202083 T2 20051215; DE 60207453 D1 20051229; DE 60207453 T2 20060803; DE 60213491 D1 20060914;
DE 60213491 T2 20070726; DE 60213491 T3 20110120; DK 1231823 T3 20061204; DK 1231823 T4 20101122; DK 1232715 T3 20060403;
EP 1232715 A2 20020821; EP 1232715 A3 20031022; EP 1232715 B1 20051123; ES 2253491 T3 20060601; ES 2267941 T3 20070316;
ES 2267941 T5 20110125

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EP 02250924 A 20020211; AT 02250907 T 20020211; AT 02250924 T 20020211; DE 60202083 T 20020211; DE 60207453 T 20020211;
DE 60213491 T 20020211; DK 02250907 T 20020211; DK 02250924 T 20020211; EP 02250907 A 20020211; ES 02250907 T 20020211;
ES 02250924 T 20020211