

Title (en)
Apparatus for floor cleaning and treatment

Title (de)
VORRICHTUNG ZUR FUSSBODENREINIGUNG UND -BEHANDLUNG

Title (fr)
APPAREIL DE NETTOYAGE ET DE TRAITEMENT DE SOLS

Publication
EP 2258248 A1 20101208 (EN)

Application
EP 10178165 A 20050216

Priority
• US 54515304 P 20040216
• US 62760604 P 20041112
• EP 05713744 A 20050216
• US 2005005094 W 20050216

Abstract (en)
The present invention relates generally to an apparatus for cleaning or otherwise treating a floored surface that includes a platform adapted to support the weight of an operator. In addition, one embodiment of the present invention is capable of generally performing 360° turns to facilitate the treatment of difficult to access portions of the floored surface.

IPC 8 full level
A47L 11/14 (2006.01); **A47L 11/282** (2006.01); **A47L 11/40** (2006.01)

CPC (source: EP)
A47L 11/14 (2013.01); **A47L 11/282** (2013.01); **A47L 11/4038** (2013.01); **A47L 11/4044** (2013.01); **A47L 11/4061** (2013.01)

Citation (applicant)
• US 6206980 B1 20010327 - ROBINSON ROBERT S [US]
• US 4759094 A 19880726 - PALMER GARY E [US], et al
• US 4196492 A 19800408 - JOHNSON RICHARD C [US], et al
• US 6625843 B2 20030930 - KIM KI-HO [KR], et al
• US 6594844 B2 20030722 - JONES JOSEPH L [US]
• US 6535793 B2 20030318 - ALLARD JAMES R [US]

Citation (search report)
• [Y] US 3833961 A 19740910 - FORTMAN L, et al
• [Y] US 6059055 A 20000509 - VELKE JAMES D [US], et al
• [Y] US 6490849 B1 20021210 - SCAG DANE T [US], et al
• [YA] US 4809397 A 19890307 - JACOBS PAUL G [US], et al
• [A] DE 4440202 A1 19950518 - PULIMAT SPA [IT]
• [A] US 4538695 A 19850903 - BRADT GRODON E [US]
• [A] US 2003213626 A1 20031120 - HAFENDORFER JAMES T [US]
• [A] US 6629333 B2 20031007 - BOLDEN KURT E [US]
• [A] US 5742975 A 19980428 - KNOWLTON CHRISTOPHER M [US], et al
• [AD] US 4759094 A 19880726 - PALMER GARY E [US], et al
• [A] US 4339841 A 19820720 - WALDHAUSER STEVEN J A, et al
• [A] US 5127124 A 19920707 - PALMER GARY E [US], et al

Cited by
WO2016054529A1

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

DOCDB simple family (publication)
WO 2005079468 A2 20050901; WO 2005079468 A3 20060914; AU 2005214976 A1 20050901; AU 2005214976 B2 20100401; CA 2559485 A1 20050901; CA 2559485 C 20120828; CN 1950012 A 20070418; CN 1950012 B 20110706; DE 202005022120 U1 20140324; DK 1715783 T3 20150427; DK 2258248 T3 20200824; DK 2820993 T3 20170123; DK 2820994 T3 20170123; EP 1715783 A2 20061102; EP 1715783 A4 20080903; EP 1715783 B1 20150121; EP 2258248 A1 20101208; EP 2258248 B1 20200715; EP 2820993 A1 20150107; EP 2820993 B1 20161012; EP 2820994 A1 20150107; EP 2820994 B1 20161012; HK 1102416 A1 20071123; JP 2007523698 A 20070823; JP 2011212467 A 201111027; JP 4892359 B2 20120307; JP 5325269 B2 20131023; MX PA06009328 A 20070301

DOCDB simple family (application)
US 2005005094 W 20050216; AU 2005214976 A 20050216; CA 2559485 A 20050216; CN 200580011019 A 20050216; DE 202005022120 U 20050216; DK 05713744 T 20050216; DK 10178165 T 20050216; DK 14003208 T 20050216; DK 14003209 T 20050216; EP 05713744 A 20050216; EP 10178165 A 20050216; EP 14003208 A 20050216; EP 14003209 A 20050216; HK 07110622 A 20071002; JP 2006553367 A 20050216; JP 2011165315 A 20110728; MX PA06009328 A 20050216