

Title (en)
CLEANING TOOL, AND METHOD FOR MANUFACTURING CLEANING PORTION CONSTITUTING THE CLEANING TOOL

Title (de)
REINIGUNGSUTENSIL UND VERFAHREN ZUR HERSTELLUNG DES DAS REINIGUNGSUTENSIL DARSTELLENDEN REINIGUNGSTEILS

Title (fr)
OUTIL NETTOYANT ET PROCEDE DE FABRICATION DE LA PARTIE NETTOYANTE CONSTITUANT L'OUTIL NETTOYANT

Publication
EP 1486157 A4 20070418 (EN)

Application
EP 03707015 A 20030224

Priority
• JP 0301985 W 20030224
• JP 2002046864 A 20020222
• JP 2002297845 A 20021010

Abstract (en)
[origin: EP1486157A1] The present invention is a cleaning tool used to clean furniture, electrical products, interior walls, and so forth. <??>It is an object of the present invention to provide a cleaning tool that traps dust very well and is excellent at removing dirt. The cleaning tool of the present invention comprises a cleaning component (2) and a handle component (5), with the cleaning component (2) being removably attached to the handle component (5). The cleaning component (2) comprises a bulging component (40) bent in a U-shape, a handle insertion component (3) formed inside said bulging component (40), and a pleated component (4) formed along and underneath the bulging component (40). A support component (10) of the handle component (5) is inserted in the handle insertion component (3) of the bulging component (40), and the cleaning component (2) is supported at the distal end of the handle component (5). <IMAGE>

IPC 8 full level
A47L 13/38 (2006.01); **A46B 7/04** (2006.01); **A47L 13/20** (2006.01)

CPC (source: EP KR US)
A46B 7/04 (2013.01 - EP US); **A47L 13/20** (2013.01 - EP KR US); **A47L 13/38** (2013.01 - EP US); **A46B 2200/3026** (2013.01 - EP US)

Citation (search report)
• [XY] DE 19833553 C1 19991230 - FREUDENBERG CARL FA [DE]
• [X] JP S56145466 U 19811102
• [XY] JP S55121346 U 19800828
• [Y] US 4313774 A 19820202 - ARTHUR JACK P
• [Y] EP 1099402 A2 20010516 - LABUDA WINFRIED [DE], et al
• [Y] GB 1363370 A 19740814 - WEBSTER P R, et al
• [Y] GB 2320420 A 19980624 - DANIELS HELEN [GB]
• [A] US 5221124 A 19930622 - NICHOLS JAMES B [US]
• See references of WO 03070080A1

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 SE SI SK TR

DOCDB simple family (publication)
EP 1486157 A1 20041215; **EP 1486157 A4 20070418**; CA 2477210 A1 20030828; JP 4050705 B2 20080220; JP WO2003070080 A1 20050609; KR 100601384 B1 20060713; KR 20040097134 A 20041117; TW 200303183 A 20030901; US 2005144749 A1 20050707; WO 03070080 A1 20030828

DOCDB simple family (application)
EP 03707015 A 20030224; CA 2477210 A 20030224; JP 0301985 W 20030224; JP 2003569046 A 20030224; KR 20047013153 A 20030224; TW 92103714 A 20030221; US 50482205 A 20050121