

Title (en)
VACUUM CLEANER PIPE FOR AN UPRIGHT VACUUM CLEANER PROVIDED WITH AN ELECTRIC WIRE

Title (de)
SAUGROHR FÜR BESENSTAUBSAUGER MIT ELEKTRISCHEM KABEL

Title (fr)
CONDUIT D'ASPIRATEUR POUR ASPIRATEUR BALAI ÉQUIPÉ D'UN FIL ÉLECTRIQUE

Publication
EP 3656268 B1 20210630 (FR)

Application
EP 19209762 A 20191118

Priority
FR 1871726 A 20181122

Abstract (en)
[origin: CN111202468A] A vacuum cleaner pipe (5) comprises: a first rigid portion (8) and a second rigid portion (9); a hinge means (11) connecting the first rigid part (8) and the second rigid part (9) to each other, the hinge means (11) comprising a pivot axis (A) and being configured to allow pivoting of the first rigid part (8) relative to the second rigid part (9) about the pivot axis (A); and at least one electrical wire (24), the at least one electrical wire (24) comprising a first wire portion (24.1) fixed to the first rigid portion (8), a second wire portion (24.2) fixed to the second rigid portion (9), and an intermediate portion (24.3), wherein the intermediate portion (24.3) is located between the first wire portion (24.1) and the second wire portion (24.2) and forms a loop around the pivot axis (A).

IPC 8 full level
A47L 9/24 (2006.01)

CPC (source: CN EP)
A47L 9/02 (2013.01 - CN); **A47L 9/24** (2013.01 - CN); **A47L 9/242** (2013.01 - EP); **A47L 9/248** (2013.01 - CN)

Citation (opposition)
Opponent : BSH Hausgeräte GmbH
• WO 2017143791 A1 20170831 - SUZHOU AIJIAN ELECTRIC APPLIANCE CO LTD [CN]
• CN 206214020 U 20170606 - JIANGSU MIDEA CLEAN ELECTRIC APPLIANCE CO LTD
• EP 2082675 A2 20090729 - EURO PRO OPERATING LLC [US]
• EP 0509970 A1 19921021 - ELEDRO KLITZ S P A [IT]
• JP H0984728 A 19970331 - MITSUBISHI ELECTRIC CORP, et al
• JP 2005176873 A 20050707 - TOSHIBA TEC KK
• EP 0671788 A1 19950913 - SPACELABS MEDICAL INC [US]
• CH 683115 A5 19940114 - WERNER KLAUI
• US 5141446 A 19920825 - OZOUF RENE [FR], et al
• DE 29611160 U1 19960829 - WESSEL WERK GMBH [DE]
• DE 102007040962 A1 20090305 - MIELE & CIE [DE]
• DE 3904395 A1 19900816 - MAUZ & PFEIFFER PROGRESS [DE]
• US 2528870 A 19501107 - DETWEILER ENOS A
• CN 106235964 A 20161221 - JIANGSU MIDEA CLEAN ELECTRIC APPLIANCE CO LTD
• CN 206214036 U 20170606 - JIANGSU MIDEA CLEAN ELECTRIC APPLIANCE CO LTD
• JP 2013202079 A 20131007 - MITSUBISHI ELECTRIC CORP, et al
• EP 2484259 A2 20120808 - KWANG DONG HITECH CO LTD [KR]
• JP H11206655 A 19990803 - MITSUBISHI ELECTRIC CORP, et al
• JP H09215642 A 19970819 - SHARP KK
• JP 2006334157 A 20061214 - SANYO ELECTRIC CO
• JP 2006192248 A 20060727 - SAMSUNG KWANGJU ELECTRONICS CO
• EP 3656268 A1 20200527 - SEB SA [FR]

Cited by
EP4356806A1; FR3141053A1; EP3656268B1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 3656268 A1 20200527; EP 3656268 B1 20210630; CN 111202468 A 20200529; CN 111202468 B 20221111; CN 211511642 U 20200918; ES 2886049 T3 20211216; FR 3088819 A1 20200529; FR 3088819 B1 20210108

DOCDB simple family (application)
EP 19209762 A 20191118; CN 201911148297 A 20191121; CN 201922023343 U 20191121; ES 19209762 T 20191118; FR 1871726 A 20181122