

Title (en)
ELECTROSTATIC ATOMIZER

Title (de)
ELEKTROSTATISCHER ZERSTÄUBER

Title (fr)
ATOMISEUR ÉLECTROSTATIQUE

Publication
EP 2774687 A4 20150819 (EN)

Application
EP 12846733 A 20121029

Priority
• JP 2011238620 A 20111031
• JP 2012006909 W 20121029

Abstract (en)
[origin: EP2774687A1] An electrostatic sprayer (1) includes: a tank (71); a spray nozzle (72) attached to the tank (71); a transport unit (40) which transports a spray liquid in the tank (71) to a tip (72a) of the nozzle (72); a counter electrode (12) exposed at an outer surface; and an electric field generation mechanism (6) which applies a voltage to the spray liquid to generate an electric field between the tip (72a) of the spray nozzle (72) and the counter electrode (12) so that the spray liquid is sprayed from the spray nozzle (72). The electrostatic sprayer (1) is provided with an output control section (62) which switches the polarity of the voltage applied by the electric field generation mechanism (6) alternately between the positive and negative polarities, and the counter electrode (12) is comprised of an ungrounded electrode.

IPC 8 full level
B05B 5/053 (2006.01); **B05B 5/035** (2006.01); **B05B 5/043** (2006.01); **B05B 5/16** (2006.01)

CPC (source: CN EP)
B05B 5/0255 (2013.01 - EP); **B05B 5/035** (2013.01 - CN EP); **B05B 5/0533** (2013.01 - CN); **B05B 5/0536** (2013.01 - EP);
B05B 5/1691 (2013.01 - CN EP)

Citation (search report)
• [X1] JP 2010155200 A 20100715 - DAIKIN IND LTD
• [X1] JP 2007260627 A 20071011 - MATSUSHITA ELECTRIC WORKS LTD
• [A] JP 2011031184 A 20110217 - MITSUBISHI ELECTRIC CORP
• See references of WO 2013065280A1

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 2774687 A1 20140910; EP 2774687 A4 20150819; CN 103889585 A 20140625; CN 103889585 B 20170215; JP 2013094718 A 20130520;
JP 5392340 B2 20140122; WO 2013065280 A1 20130510

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EP 12846733 A 20121029; CN 201280052044 A 20121029; JP 2011238620 A 20111031; JP 2012006909 W 20121029