

Title (en)
HOUSEHOLD APPLIANCE HAVING A SELF-CLEANING CATALYTICALLY ACTIVE SURFACE AND A METHOD FOR OPERATING THE SAME

Title (de)
HAUSHALTSGERÄT MIT EINER SELBSTREINIGENDEN, KATALYTISCH AKTIVEN OBERFLÄCHE UND VERFAHREN ZUM BETRIEB DAVON

Title (fr)
APPAREIL ÉLECTROMÉNAGER PRÉSENTANT UNE SURFACE À ACTIVITÉ CATALYTIQUE AUTO-NETTOYANTE ET SON PROCÉDÉ DE FONCTIONNEMENT

Publication
EP 3538262 A1 20190918 (EN)

Application
EP 17797542 A 20171024

Priority
• ES 201631422 A 20161109
• EP 16382519 A 20161109
• EP 2017077073 W 20171024

Abstract (en)
[origin: WO2018086863A1] The invention relates to a household appliance (1) with at least one self-cleaning catalytically active surface containing at least one reactive oxygen species (ROS) generator (17), wherein the at least one ROS generator is selected from the group consisting of compounds with the formula (I), (II) or (III), Ag-B-M-Sulfur (I) wherein B is selected from the group consisting of Al, Ga, In, Sn, Tl, Pb and Bi; and M is selected from the group consisting of Ti, Zr, Cr, Mo, Mn, Fe, Ru, Ni, Pd, Cu, Zn and Cd; MO_q-A (II) wherein q = 2 or 3; and M is selected from the group consisting of Zr, Ti, Cr, Mo, W and Mn; and A is acetylacetonate or a derivative thereof selected from the group consisting of compounds with the formula (A) wherein R₁, R₂ and R₃ are independently selected from the group consisting of H, Cl, Br, I, and C₁ to C₈₀ hydrocarbon and polymer radicals. YSe-Rx-MO₂ (III) wherein Y is selected from Sn or Pb; and Rx is a carbon allotrope; and M is selected from the group consisting of Zr, Ti, Cr, Mo, W and Mn.

IPC 8 full level
B01J 27/043 (2006.01); **A61L 2/232** (2006.01); **B01J 21/06** (2006.01); **B01J 21/18** (2006.01); **B01J 27/057** (2006.01); **B01J 27/20** (2006.01); **B01J 37/02** (2006.01); **B01J 37/03** (2006.01); **C02F 1/50** (2006.01); **C02F 1/72** (2006.01); **C02F 1/74** (2006.01); **C02F 1/78** (2006.01); **C02F 103/00** (2006.01)

CPC (source: CN EP)
B01J 21/063 (2013.01 - CN EP); **B01J 21/18** (2013.01 - CN EP); **B01J 27/043** (2013.01 - CN EP); **B01J 27/0573** (2013.01 - CN EP); **B01J 27/20** (2013.01 - CN EP); **B01J 37/0215** (2013.01 - CN EP); **B01J 37/0219** (2013.01 - CN EP); **B01J 37/036** (2013.01 - CN EP); **B01J 2523/00** (2013.01 - CN EP); **B01J 2523/18** (2013.01 - CN); **B01J 2523/33** (2013.01 - CN); **B01J 2523/44** (2013.01 - CN); **B01J 2523/47** (2013.01 - CN); **B01J 2523/62** (2013.01 - CN); **B01J 2523/63** (2013.01 - CN); **B01J 2523/847** (2013.01 - CN)

Citation (search report)
See references of WO 2018086863A1

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2018086863 A1 20180517; CN 109922881 A 20190621; CN 109922881 B 20220318; CN 114653385 A 20220624; EP 3538262 A1 20190918

DOCDB simple family (application)
EP 2017077073 W 20171024; CN 201780068694 A 20171024; CN 202210304100 A 20171024; EP 17797542 A 20171024