

Title (en)

Automatic opening-and-closing lid for garbage bin

Title (de)

Automatisch öffnender und schließender Deckel für Abfalleimer

Title (fr)

Couvercle de poubelle à ouverture/fermeture automatique

Publication

EP 2289821 A1 20110302 (EN)

Application

EP 09168795 A 20090827

Priority

EP 09168795 A 20090827

Abstract (en)

An automatic opening-and-closing lid for a garbage bin, the automatic opening-and-closing lid comprises a base member (10) including an opening (11) for user throwing trash into the bin therefrom and first and second annular flanges (14,15); a lid (30) installed to the opening (11) of the base member (10) and able to pivot with respect to the base member (10); a control means (40) installed to the base member (10) and including a power source (41) for power supply, a control panel (42), a driving member (44) electrically connected to the control panel (42), a driven member (45) and first and second sensor wires (46,47) electrically connected to the power source (41), with the first and second sensor wires (46,47) respectively disposed in the first and second annular flanges (14,15); and a sensing region formed proximal to the first and second sensor wires (46,47).

IPC 8 full level

B65F 1/16 (2006.01)

CPC (source: EP)

B65F 1/1607 (2013.01); **B65F 1/1638** (2013.01)

Citation (search report)

- [A] EP 2025623 A1 20090218 - KAO I-FENG [TW], et al
- [A] US 2008264945 A1 20081030 - SHEK MICHAEL TIN-KIM [US]
- [A] DE 202006003267 U1 20060504 - SCHNEIDER ANDREAS [DE]

Cited by

CN106919088A; CN106378355A; CN111137605A; EP4046938A4; US2021362947A1; US11999561B2

Designated contracting state (EPC)

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 SE SI SK SM TR

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