

Title (en)  
DOWNFORCE SWEEPER

Title (de)  
ANPRESSKEHRMASCHINE

Title (fr)  
BALAYEUSE À DÉPORTANCE

Publication  
**EP 3884109 C0 20231206 (EN)**

Application  
**EP 19887413 A 20191028**

Priority  
• AU 2018904463 A 20181122  
• AU 2019051183 W 20191028  
• AU 2018904590 A 20181203

Abstract (en)  
[origin: WO2020102848A1] A device for collecting debris from a surface, comprising a catcher and a lifting ramp, wherein the lifting ramp is located forward of the catcher such that when the device is moved over a ground surface, debris on the ground surface passes upwardly over the lifting ramp onto the catcher, wherein the lifting ramp is shaped as an aerofoil to create downforce on the lifting ramp toward the ground surface from air moving across the aerofoil under said movement.

IPC 8 full level  
**E01H 1/04** (2006.01)

CPC (source: AU EP US)  
**E01H 1/04** (2013.01 - AU EP US)

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

Participating member state (EPC – UP)  
AT BE BG DE DK EE FI FR IT LT LU LV MT NL PT SE SI

DOCDB simple family (publication)  
**WO 2020102848 A1 20200528**; AU 2019382306 A1 20210603; AU 2019382306 B2 20240418; EP 3884109 A1 20210929; EP 3884109 A4 20220817; EP 3884109 B1 20231206; EP 3884109 C0 20231206; US 2022018074 A1 20220120

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**AU 2019051183 W 20191028**; AU 2019382306 A 20191028; EP 19887413 A 20191028; US 201917295777 A 20191028