

Title (en)
METHOD AND SYSTEM FOR MOVING AND REMOVING WINTER CONTAMINANTS FROM AIRFIELD AND ROADWAY PAVEMENTS USING A SYSTEM OF ATTACHMENTS

Title (de)
VERFAHREN UND SYSTEM ZUM BEWEGEN UND ENTFERNEN VON WINTERVERUNREINIGUNGEN VON FLUGFELD- UND FAHRBAHNDECKEN UNTER VERWENDUNG EINES SYSTEMS VON AUFSÄTZEN

Title (fr)
PROCÉDÉ ET SYSTÈME POUR DÉPLACER ET ÉLIMINER DES CONTAMINANTS HIVERNAUX D'UN TERRAIN D'AVIATION ET DE CHAUSSÉES À L'AIDE D'UN SYSTÈME D'ACCESSOIRES

Publication
EP 3797194 A4 20220309 (EN)

Application
EP 19807199 A 20190522

Priority
• US 201862675309 P 20180523
• CA 2019050695 W 20190522

Abstract (en)
[origin: WO2019222844A1] A system for removing contaminants from a surface, attached to a vehicle movable in a first direction. The system includes a first scraper for removing contaminants from a surface. A first conveyor system includes a continuous track element for conveying the contaminants removed from the surface in a second direction that is not aligned with the first direction. A second scraper removes contaminants from the surface and is positioned between the first conveyor and the vehicle. A second conveyor system is positioned between the vehicle and the second scraper and includes a continuous track element for conveying the contaminants removed from the surface in a third direction that is not aligned with the first direction. An ice and compact breaker is positioned between the first conveyor system and the second conveyor system. The ice and compact breaker includes a plurality of teeth for breaking the contaminants on the surface.

IPC 8 full level
E01H 5/07 (2006.01); **E01H 1/04** (2006.01); **E01H 5/06** (2006.01); **E01H 5/12** (2006.01)

CPC (source: EP US)
E01H 5/061 (2013.01 - EP US); **E01H 5/073** (2013.01 - EP US); **E01H 5/076** (2013.01 - US); **E01H 5/12** (2013.01 - EP US)

Citation (search report)
• [YA] CN 2579948 Y 20031015 - WANG SHENGZHONG [CN]
• [YA] DE 2400437 A1 19740711 - BRITISH COLUMBIA RES COUNCIL
• [YA] CN 102094401 A 20110615 - ANSHAN SENYUAN ROAD & BRIDGE CO LTD
• [YA] CN 204825767 U 20151202 - WANG QISHUN
• [YA] CN 104947625 A 20150930 - ZHANG YUDE
• See references of WO 2019222844A1

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)
WO 2019222844 A1 20191128; CA 3101029 A1 20191128; CN 112513374 A 20210316; CN 112513374 B 20221202; EP 3797194 A1 20210331; EP 3797194 A4 20220309; EP 3797194 B1 20231101; EP 3797194 C0 20231101; JP 2021525323 A 20210924; JP 7223036 B2 20230215; US 2021198859 A1 20210701

DOCDB simple family (application)
CA 2019050695 W 20190522; CA 3101029 A 20190522; CN 201980034777 A 20190522; EP 19807199 A 20190522; JP 2020565272 A 20190522; US 201917057370 A 20190522