

Title (en)

Sweeping device for utility vehicle

Title (de)

Kehrvorrichtung für Arbeitsfahrzeuge

Title (fr)

Dispositif de balayage pour véhicule utilitaire

Publication

EP 0727527 B1 20000823 (DE)

Application

EP 96102227 A 19960215

Priority

DE 29502694 U 19950218

Abstract (en)

[origin: US5742967A] Sweeping devices for utility vehicles with a rotatingly driven bristle roller have been known, which are covered on the top side by a protective housing and in front of which a feed screw extending in parallel to the bristle roller is arranged, and the feed screw is arranged, drivable by a motor, in a sweepings collection housing, which is provided with a rear charging opening and with a discharge opening at the end of the screw, wherein the sweepings collection housing has an obliquely downwardly directed baffle plate with a flexible bottom plate under its charging opening. To improve the mode of operation and the sweeping performance, especially at higher speeds of travel, the bristle roller is driven at such a speed of rotation that in the area located between it and the charging opening of the sweepings collection housing, it generates an air flow, which continues into the discharge opening of the sweepings collection housing, which is designed as a feed cup and a flow channel at the same time.

IPC 1-7

E01H 1/04; **E01H 5/06**; **E01H 5/09**

IPC 8 full level

E01H 1/08 (2006.01); **E01H 1/04** (2006.01); **E01H 5/06** (2006.01); **E01H 5/09** (2006.01)

CPC (source: EP US)

E01H 1/042 (2013.01 - EP US); **E01H 5/06** (2013.01 - EP US); **E01H 5/092** (2013.01 - EP US)

Cited by

CN110792058A; CN105507199A; DE29719508U1; CN104099970A; US9353494B2; US9303376B2

Designated contracting state (EPC)

AT BE CH DE FR GB IT LI NL

DOCDB simple family (publication)

US 5742967 A 19980428; AT E195777 T1 20000915; CA 2169688 A1 19960819; CA 2169688 C 20000425; DE 29502694 U1 19950511; DE 59605769 D1 20000928; EP 0727527 A1 19960821; EP 0727527 B1 20000823; JP H08253918 A 19961001

DOCDB simple family (application)

US 60231496 A 19960216; AT 96102227 T 19960215; CA 2169688 A 19960216; DE 29502694 U 19950218; DE 59605769 T 19960215; EP 96102227 A 19960215; JP 3102096 A 19960219