

Title (en)

ARRANGEMENT WITH A WHEEL AND A PLANAR COVER ELEMENT FOR A VEHICLE, COVER ELEMENT, WHEEL, AND VEHICLE

Title (de)

ANORDNUNG MIT EINEM RAD UND EINEM FLÄCHIGEN ABDECKELEMENT FÜR EIN FAHRZEUG, ABDECKELEMENT, RAD UND FAHRZEUG

Title (fr)

AGENCEMENT DOTÉ D'UNE ROUE ET D'UN ÉLÉMENT DE PROTECTION PLAN POUR UN VÉHICULE, ÉLÉMENT DE PROTECTION, ROUE ET VÉHICULE

Publication

EP 4221993 A1 20230809 (DE)

Application

EP 21773339 A 20210903

Priority

- DE 102020125677 A 20201001
- EP 2021074339 W 20210903

Abstract (en)

[origin: WO2022069151A1] The present invention relates to an arrangement (10) with a wheel (11) and a planar cover element (12), wherein the wheel has a rim (16), a hub (17) and a plurality of spokes (15), wherein the wheel has a free space (13) between at least every two spokes spaced apart in the circumferential direction, said free space being at least partly covered by the planar cover element and, on its inner edge, having a slight step (14) on an outer side of the rim, which step extends at least in some portions along the edge, and the cover element and the rim being formed and arranged relative to one another in such a way that the gap (20) resulting in the region of the step from the arrangement of the cover element relative to the rim, following entry of a flow into the gap until exit from the gap, causes an at least two-fold deflection (U1, U2) of the flow passing through the gap from the vehicle interior to the vehicle exterior or from the vehicle exterior to the vehicle interior.

IPC 8 full level

B60B 3/02 (2006.01); **B60B 3/10** (2006.01); **B60B 7/04** (2006.01); **B60B 7/06** (2006.01)

CPC (source: EP US)

B60B 3/02 (2013.01 - EP US); **B60B 3/10** (2013.01 - EP); **B60B 7/04** (2013.01 - EP US); **B60B 7/065** (2013.01 - EP US); **B60B 2900/1216** (2013.01 - EP US); **B60B 2900/513** (2013.01 - EP); **Y02T 10/88** (2013.01 - EP)

Citation (search report)

See references of WO 2022069151A1

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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

DE 102020125677 A1 20220407; CN 116323242 A 20230623; EP 4221993 A1 20230809; US 2023382157 A1 20231130; WO 2022069151 A1 20220407

DOCDB simple family (application)

DE 102020125677 A 20201001; CN 202180067496 A 20210903; EP 2021074339 W 20210903; EP 21773339 A 20210903; US 202118029706 A 20210903