

Title (en)

IMPROVEMENTS IN & RELATING TO GRADING APPARATUS FOR VEHICLES

Title (de)

VERBESSERUNGEN AN UND IM ZUSAMMENHANG MIT SORTIERVORRICHTUNGEN FÜR FAHRZEUGE

Title (fr)

AMÉLIORATIONS APPORTÉES OU SE RAPPORTANT À UN APPAREIL DE NIVELLEMENT POUR VÉHICULES

Publication

**EP 4267806 A1 20231101 (EN)**

Application

**EP 21909680 A 20211222**

Priority

- NZ 77157220 A 20201223
- NZ 77619421 A 20210517
- NZ 77722721 A 20210615
- NZ 77729921 A 20210616
- IB 2021062147 W 20211222

Abstract (en)

[origin: WO2022137141A1] Grader Apparatus for attachment (4) to a vehicle has a main body portion (2) coupled to a blade body portion (8) by multiple linkages. These include primary load bearing links (15, 17) which connect (16) to the blade portion (8) aligned in a vertical z-axis allows rotation of the blade portion (8) thereabout. Adjustable length actuators (18) allow rotational yaw control about the z-axis. Adjustable roll actuators (19) connect between an extension (3) of the main body portion (2) and the blade body portion (8) to control its elevation and roll angle. Other embodiments allow lateral shifting of the blade body portion (8), and include an improved slope sensor catering for yaw with roll combinations.

IPC 8 full level

**E02F 3/76** (2006.01)

CPC (source: AU EP US)

**E02F 3/7631** (2013.01 - AU); **E02F 3/7663** (2013.01 - AU); **E02F 3/7668** (2013.01 - AU EP US); **E02F 3/7672** (2013.01 - EP); **E02F 3/7677** (2013.01 - AU EP US); **E02F 3/7681** (2013.01 - AU EP); **E02F 3/844** (2013.01 - AU US); **E02F 3/847** (2013.01 - EP); **E02F 3/962** (2013.01 - AU); **E02F 3/963** (2013.01 - AU)

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)

**WO 2022137141 A1 20220630**; AU 2021405289 A1 20230810; AU 2021405289 A9 20240718; CA 3205582 A1 20220630; EP 4267806 A1 20231101; US 2024026636 A1 20240125

DOCDB simple family (application)

**IB 2021062147 W 20211222**; AU 2021405289 A 20211222; CA 3205582 A 20211222; EP 21909680 A 20211222; US 202118256898 A 20211222