

Title (en)

DIFFERENTIAL DEVICE AND VEHICLE HAVING SAID DIFFERENTIAL DEVICE

Title (de)

DIFFERENTIALVORRICHTUNG SOWIE EIN FAHRZEUG MIT DER DIFFERENTIALVORRICHTUNG

Title (fr)

DISPOSITIF DIFFÉRENTIEL ET VÉHICULE COMPRENANT LE DISPOSITIF DIFFÉRENTIEL

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Application

EP 17780704 A 20171004

Priority

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Abstract (en)

[origin: WO2018082853A1] Differentials are often used in vehicles in order to distribute a drive torque to two output shafts. The bevel gear differential makes it possible, by means of differential bevel gears, to rotate the two output shafts relative to each other such that in this way, for example, different angular velocities can be compensated during the cornering of vehicles. The differential bevel gears are held in a differential cage by means of bolts. For this purpose, a differential device (1) is proposed, according to the invention, comprising a differential star (5), wherein the differential star (5) has a bolt body (6) having four bolt sections (7a, b, c, d) and having four bevel gears (8a, b, c, d), wherein the bevel gears (8a, b, c, d) are placed on the bolt sections (7a, b, c, d), and comprising a differential housing (3), wherein the differential star (5) is arranged in the differential housing (3), wherein the differential housing (3) defines an axis of rotation (R), wherein the bolt body (6) has a differential main bolt (10) having two bolt sections (7c, d) and two differential bolts (9a, b) each having one bolt section (7a, b), wherein the differential main bolt (10) has a holding section (11), wherein the differential bolts (9a, b) are held in the holding section (11).

IPC 8 full level

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