

Title (en)

TRACKED ELECTRIC VEHICLE SYSTEMS

Title (de)

RAUPENFÖRMIGE ELEKTROFAHRZEUGSYSTEME

Title (fr)

SYSTÈMES DE VÉHICULE ÉLECTRIQUE À CHENILLES

Publication

EP 4281314 A1 20231129 (EN)

Application

EP 22743422 A 20220120

Priority

- US 202163139565 P 20210120
- US 2022070276 W 20220120

Abstract (en)

[origin: WO2022159966A1] Electrified roadway systems include a roadway, and vehicles configured to operate on the roadway. The roadway has a base, and two electrically-conductive rails mounted on the base. One of the rails is electrically connected to a source of electric power, and the other rail is electrically connected to an electrical ground. The vehicles include non-electrically-conductive tires, and an electric motor mechanically connected to, and configured to rotate at least one of the tires to propel the vehicle along the roadway. The vehicles draw electric power from the roadway via two electrical pickups that contact the respective rails, and a retracted position at which the pickups are out of contact with the rails. A wear-resistant cover can be positioned on each of the rails. The wear resist covers can have features that maximize the contact area and the contact force between the covers and the rails.

IPC 8 full level

B60M 1/30 (2006.01); **B60K 1/00** (2006.01); **B60L 13/00** (2006.01); **B60M 1/02** (2006.01)

CPC (source: EP)

B60L 13/006 (2013.01); **B60M 1/302** (2013.01); **B60M 1/34** (2013.01); **Y02T 10/70** (2013.01); **Y02T 10/7072** (2013.01); **Y02T 90/14** (2013.01)

Citation (search report)

See references of WO 2022159966A1

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