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(54) **COMPACT DRIVE UNIT FOR TRACTION VEHICLES**

(71) Applicants: **ZAPADOESKA UNIVERZITA V PLZNI**, Plzen (CZ); **WIKOV MGI A.S.**, Prague (CZ)

(72) Inventors: **Zdenek Peroutka**, Plzen (CZ); **Miroslav Byrtus**, Klatovy (CZ); **Karel Hruska**, Prestice (CZ); **Roman Pechanek**, Prague (CZ); **Pavel Drabek**, Plzen (CZ); **Jan Krepela**, Dobruska (CZ); **Jan Hruska**, Police nad Metuji (CZ); **Jiri Hana**, Velke Porici (CZ)

(73) Assignees: **Wikov MGI A.S.**, Prague (CZ); **Zapadoceska Univerzita V Plzni**, Plzen (CZ)

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Primary Examiner — John K Kim

(74) *Attorney, Agent, or Firm* — Hovey Williams LLP

(57)

ABSTRACT

A compact drive unit is predominantly intended for traction vehicles, especially for rail vehicles. This invention allows significant reduction of volume and weight of drive units. The drive unit comprises high-speed electrical motor (1) with passive cooling, which is supplied by power electronics converter (2), whose rotor is supported by bearings (3) along with pinion gear (4) of the input spur/helical gear (5). The output shaft (6) of the gear (5) is a part of the next following

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