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(54) Title: CHASSIS EDGE BEAM, CHASSIS STRUCTURE AND RAIL VEHICLE

(54) 发明名称: 底架边梁、底架结构及轨道车辆

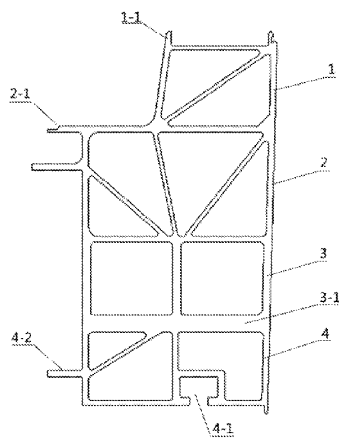


图 3

(57) Abstract: A chassis edge beam, a chassis structure and a rail vehicle. The chassis edge beam is an aluminum alloy profile structure that is integrally extruded and formed, and comprises a first-layer cavity, a second-layer cavity, a third-layer cavity and a fourth-layer cavity, which are sequentially stacked from top to bottom, wherein the top of the first-layer cavity is provided with a profile insertion structure, which is configured to be inserted in and welded to a side wall of a vehicle body; a profile lap-joint structure with an opening facing an inner side of the vehicle body is formed at an upper edge of an inner side face of the second-layer cavity; and the third-layer cavity has two square-shaped cavities arranged side by side, and a transverse wall of the bottom of each square-shaped cavity is thickened, so as to be used to form a planar structure for mounting an under-vehicle apparatus, an anti-yaw damper and an under-vehicle apparatus compartment, and for connecting a bogie to the vehicle body. The chassis edge beam can meet limiting requirements of different vehicle limits at home and abroad for the outer contour of a vehicle body structure, and can be flexibly fit with vehicle body structures having different vehicle widths.

(57) 摘要: 一种底架边梁、底架结构及轨道车辆, 所述底架边梁为一体式挤压成型的铝合金型材结构, 包括由上至下依次层叠的第一层型腔、第二层型腔、第三层型腔和第四层型腔, 所述第一层型腔的顶部设有用于与车体侧墙插接焊接的型材插接结构; 所述第二层型腔的内侧面在上边缘处形成有开口朝向车体内侧的型材搭接结构; 所述第三层型腔具有两个并排的口型型腔, 所述口型型腔的底部横向壁进行增厚, 以用于形成车下设备、抗蛇行减振器、车下设备舱的安装以及转向架与车体连接的平面结构。该底架边梁可以满足国内外不同车辆限界对车体结构外轮廓的限制要求, 可灵活匹配不同车辆宽度的车体结构。

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