ABSTRACT

Extendable electric coupling device for an electric vehicle charging station

The present invention concerns an electric coupling device for an electric vehicle charging station comprising a ram/coupler (310) provided with an extendable arm (320) suitable for being moved between a retracted position and an extended position in which the arm (320) is adapted to provide an electric link and support means (200, 100) for supporting the ram/coupler (310) allowing two degrees of rotational freedom of the ram relative to a support base, about two axes (202, 302) generally transverse to each other and generally orthogonal to the direction of extension (322) of the arm (320), the ram/coupler (310) being placed in a protective housing capable of angular displacement about a vertical axis and about a horizontal axis (302) perpendicular to the direction of extension (322) of the arm (320) relative to a support base, the extendable arm (320) being mounted on a means linked to a strand of a belt driven by a geared motor (340), a counterweight (350) being linked to an opposing strand of the belt.

Figure 1.