

Abstract

Disclosed are a movable battery replacing platform (103) and a quick replacing system (100), wherein the movable battery replacing platform (103) comprises: a travel-driving portion (106) used for driving the movable battery replacing platform (103) to move on the ground; a lifting portion (107) mounted on the travel-driving portion (106), for lifting a battery during the replacement of the battery; and a battery mounting portion (108) mounted on the top of the lifting portion (107), for placing a battery to be replaced or a replaced battery, wherein the battery mounting portion (108) is provided with a battery replacing device. The device can use an unlocking device (50) to unlock a battery locked on the bottom of an electric vehicle, automatically aligning an unlocking point of a battery locking mechanism and realizing automatic unlocking in the movement. The whole process is fully automated without manual intervention and can improve battery replacement efficiency. In addition, the angle of an upper board (10) relative to the battery unlocking position can be adjusted by a movement actuating device, so that the unlocking point of the battery can automatically fit where the movable battery replacing platform (103) remains still, so as to further improve unlocking efficiency.

Fig. 2