BATTERY SWAPPING EQUIPMENT FOR ELECTRIC VEHICLE AND POSITIONING METHOD FOR BATTERY SWAPPING EQUIPMENT

ABSTRACT

Battery swapping equipment for an electric vehicle and a positioning method for battery swapping equipment. Battery swapping equipment includes: an unlocking mechanism configured to unlock a battery pack locked onto a fast swapping bracket of electric vehicle; an image collection module configured to collect a first actual image comprising the lock base during an unlocking process of the battery pack; a storage module configured to store a first standard image collected by the image collection module when the battery swapping equipment is located in a battery swapping position, the first standard image comprising the lock base; a positioning judgement module configured to judge whether the battery swapping equipment is located in the battery swapping position according to the first actual image and the first standard image; if not, generating a first moving instruction according to a judged result; a moving mechanism configured to move according to the first moving instruction.

Figure 1