

ABSTRACT

The disclosure discloses a liquid injection device and a liquid injection method. The liquid injection device includes a frame, a trepanning mechanism and a liquid injection mechanism, wherein the trepanning mechanism includes a trepanning assembly and a driving assembly, the trepanning assembly is used for trepanning on a lithium battery, and the driving assembly includes a first driving assembly for driving the trepanning assembly to move along a first linear direction, a second driving assembly for driving the trepanning assembly to move along a second linear direction and a third driving assembly for driving the trepanning assembly to move along a third linear direction; the first linear direction and the second linear direction are on a same plane, and the third linear direction is arranged at an included angle with the plane; and the liquid injection mechanism includes a liquid injection assembly and a moving assembly, so that the trepanning assembly can move at will on an upper surface of a lithium battery pack under driving of the driving assembly to select an optimal location for trepanning, thus having a high trepanning speed and a good quality, improving a trepanning efficiency and a trepanning quality, and further improving liquid injection efficiency and quality of the lithium battery.

<FIGURE 1>