

ABSTRACT

Disclosed is a novel lower-trolley system, comprising a lower trolley (3), a lower-trolley hoisting system, and a lower-trolley travelling system. The lower trolley (3), the lower-trolley hoisting system and the lower-trolley travelling system are all arranged on a quay crane; the lower-trolley hoisting system drives a hoist (14) of the lower trolley (3) to rise and fall, and the lower-trolley travelling system pulls the lower trolley (3) to make same travel in the direction of a double-trapezoid four-track girder (1) of the quay crane; and the lower trolley (3) is hung upside down on outer-side tracks (15) of the double-trapezoid four-track girder (1), and a container (12) hoisted by an upper trolley (2) can pass through the lower trolley (3).

Figure 2