

Boom Extension Device For Dockside Container Crane, and Extension Method for Same

Abstract

A boom extension device for a dockside container crane. A boom comprises a rear boom section (11) and a front boom section (12). The extension device comprises: an extension trolley tool (2) which is disposed below the rear boom section (11) and the front boom section (12) during an extension operation, and which comprises a wheel set (21), a trolley frame (22), a construction platform (23), and a movement track (24) disposed on the construction platform; a first support frame trolley (31) disposed on the movement track (24) and used to carry a boom extension section (41) and guide the boom extension section (41) to move in a first direction; and a second support frame trolley (32) disposed on the movement track (24) and used to carry the front boom section (12) and guide the front boom section (12) to move in a second direction perpendicular to the first direction in a first plane. Further included is an extension method for a boom of a dockside container crane. The invention reduces usage of heavy-duty equipment.

FIG. 1