

ABSTRACT

A universal fixture, comprising: a base (100), having a quick-replacement cavity (110) enclosed by a side wall of the base (100); a clamping assembly (200), disposed on the side wall and configured to be capable of extending out from the side wall or retracting back; a driving mechanism (300), disposed on the base (100) and configured to extend into the quick-replacement cavity (110) to drive the clamping assembly (200) to extend or retract; and an unlocking mechanism (400), disposed on the base (100) and configured to penetrate through the quick-replacement cavity (110) to provide unlocking power. During unlocking, the driving mechanism (300) drive the clamping assembly (200) to extend out of the side plate of the base (100) to fix a fixture flange (700), when an unlocking fixture need to be replaced, the driving mechanism (300) drive the clamping assembly (200) to retract into the quick-replacement cavity (110) to complete the disassembly of the unlocking fixture, thereby automatically completing the disassembly and assembly of the unlocking fixture, and thus improving the automation level of a port or a wharf and facilitating the construction of unmanned port or wharf. The present application further relates to a robot and an unlocking system.

FIG. 1