

**DEVICE AND METHOD FOR AUTOMATICALLY REMOVING SAFETY PIN
ON A BOMB FUSE IN A MORTAR SYSTEM**

ABSTRACT

A device and method for removing a safety pin from a fuse on a mortar bomb is disclosed. The device has a pin removal unit in contact with the bomb fuse. A first driving unit is used to engage or disengage the pin removal unit with the bomb fuse. The pin removal unit has a wedge profile with an angled surface that rest on a surface of the bomb fuse when the first driving unit moves the pin removal unit and engages with the bomb fuse. A rotary unit is used to dislodge the safety pin from the bomb fuse. In one embodiment, the wedge profile has protrusions to drive the safety pin away from the bomb fuse. In another embodiment, the wedge profile has another protrusion for flicking the safety pin from the bomb fuse.

FIG.1 accompanies the abstract.