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(54) **ELECTRICAL SYSTEM AND ELECTRICAL APPARATUS FOR BUS PLUGS WITH ROTARY HANDLE**

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(57)

ABSTRACT

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The present disclosure provides an electrical system and an electrical apparatus including a flexible interlock mechanism. An electrical system to operate an electrical device in an enclosure includes an interlock mechanism, where the interlock mechanism includes an interlock slider for selectively engaging the enclosure with a busway structure; an actuating system on a door of the enclosure, where the actuating system includes a cam assembly that is configured to control the interlock mechanism; and a flexible mechanical interlock assembly that connects the cam assembly to the interlock mechanism, and where the flexible mechanical interlock assembly includes a push pull cable having a first end and a second end, where the first end of the push pull cable is connected to the cam assembly through a first connecting element, and where the second end of the push pull cable is connected to the interlock mechanism through a second connecting element.

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