

ABSTRACT

FREELY-FOLDABLE FLEXIBLE LED SCREEN

A freely-foldable flexible LED screen includes multiple LED sub-screens, PCBs disposed inside casings of the LED sub-screens, LEDs disposed on the PCB, and conducting wires electrically connecting the PCBs. Adjacent LED sub-screens are connected using a connection mechanism capable of freely rotating, which includes a rotation rod, and rotation shafts disposed at two ends of the rotation rod; the casing of the LED sub-screen includes a front casing and a rear casing; where grooves are symmetrically disposed at edges of the front and rear casings, the rotation shafts at two ends of the rotation rod are respectively installed in grooves in the casings of two adjacent LED sub-screens, the grooves of the front and rear casings are further provided with close covers connecting the rotation shafts, where the close cover corresponding to the rotation shaft is provided with a rotation shaft groove that is rotatably connected to the rotation shaft.