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Syu et al.(10) **Pub. No.: US 2022/0352710 A1**(43) **Pub. Date: Nov. 3, 2022**(54) **ELECTROSTATIC DISCHARGE
PROTECTION CIRCUIT**(52) **U.S. Cl.**CPC *H02H 9/046* (2013.01); *H01L 27/0285*
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ABSTRACT(73) Assignee: **Winbond Electronics Corp.**, Taichung
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An electrostatic discharge (ESD) protection circuit includes a first transistor, a second transistor, a capacitor, a voltage dividing circuit, and a first diode. The first transistor is coupled between a first power rail and a second power rail. The second transistor is coupled between the first power rail and the second power rail. A bulk of the second transistor is coupled to a control terminal of the first transistor. The capacitor is coupled between the first power rail and a control terminal of the second transistor. The voltage dividing circuit is coupled between the control terminal of the second transistor and the second power rail, and has a divided voltage output terminal coupled to the bulk of the second transistor. The first diode is coupled between the divided voltage output terminal and the second power rail.

