

POWERED DEVICE

ABSTRACT

A powered device (PD) is disclosed. Four MOSFETs are used in a rectifier circuit of the PD to reduce costs. In addition, these four MOSFETs are disposed based on a premise that an electric potential of a contact pair 1-2 is lower than that of a contact pair 3-6 and an electric potential of a contact pair 7-8 is lower than that of a contact pair 4-5, so that a PoE current of each contact group passes through only two of the MOSFETs but does not pass through a diode, so as to reduce a power loss.

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Figure 3