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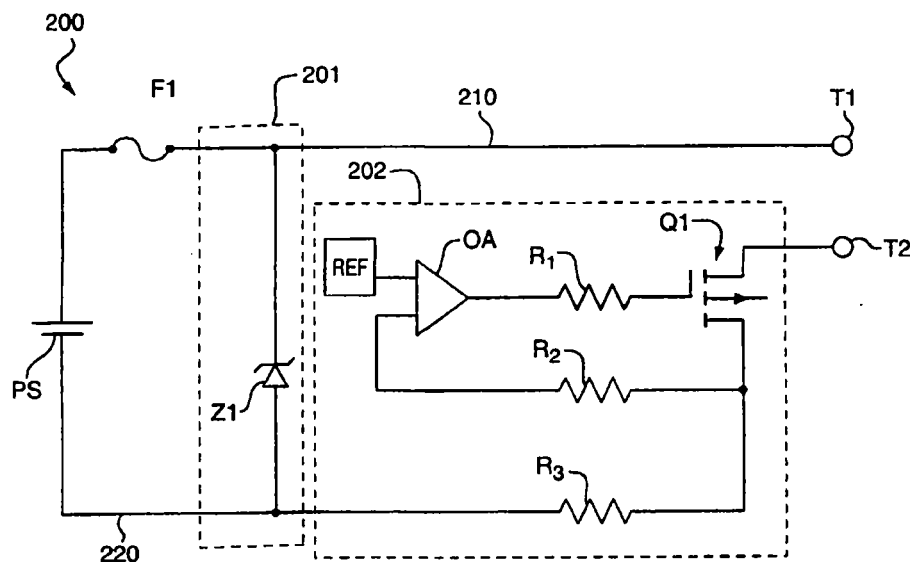
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(54) Title: INTEGRATED CURRENT SOURCE FEEDBACK AND CURRENT LIMITING ELEMENT



(57) Abstract: A circuit (200) for supplying power to an intrinsically safe load having an integrated current source feedback and current limiting element. The circuit (200) includes a power supply (PS) and output terminals (T1-T2) that connect the circuits to the intrinsically safe load. Voltage limiting circuitry (Z1) between the power supply (PS) and the output terminals (T1-T2) limit is the voltage across the load. Current limiting circuitry (202) includes barrier resistors which convert current to voltage for comparison in an operational amplifier (OA) that adjust the impedance across a variable impedance device (Q1) and limits current applied to the load.



ACTION

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