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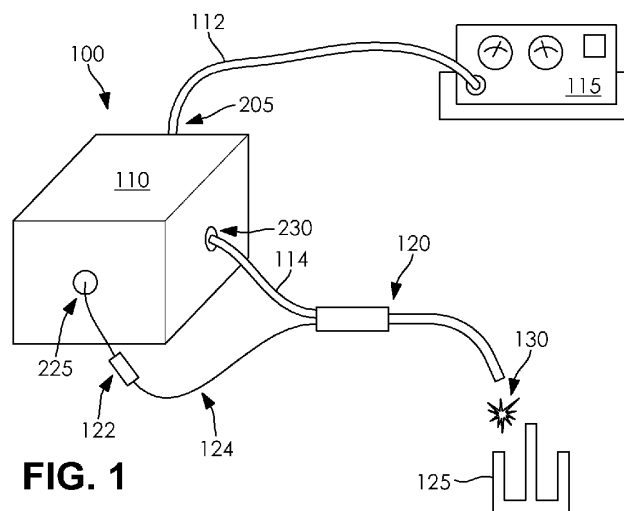
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(54) Title: WELDING ELECTRICAL CONTROL SYSTEM, APPARATUS, AND METHOD



(57) Abstract: An apparatus is disclosed. The apparatus has a power supply, a control device connected to the power supply, a welding device selectively connected to the power supply via the control device, and a switch connected between the control device and the welding device. The control device includes a time delay relay that measures a predetermined time period. The switch maintains a closed position when the predetermined time period expires and the welding device is producing a welding arc. The switch switches from the closed position to an open position when the predetermined time period expires and the welding device stops producing the welding arc. The control device transfers current from the power supply to the welding device when the switch is in the closed position, and blocks current from the power supply to the welding device when the switch is in the open position.

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