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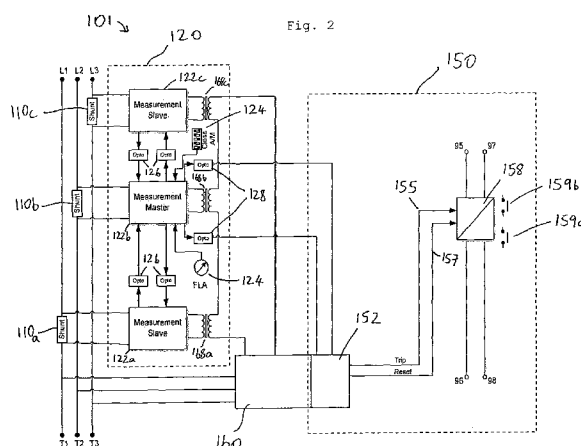
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(54) Title: OVERLOAD RELAY



(57) Abstract: An overload relay (101) for protecting a motor or other device from an overload condition and a power supply unit for supplying power to the overload relay. The overload relay has: a plurality of shunt resistors (110a, 110b, 110c), each shunt resistor being locatable in the current path of a respective supply line of a power supply for the motor or other device; and a control means (122a, 122b, 122c) connected to each of the shunt resistors and arranged to receive signals representative of current through each of the shunt resistors. The control means is arranged to produce a trip signal to interrupt the continuity of the power supply if it determines that an overload condition exists based on one or more of the signals representative of current through the shunt resistors. The power supply unit (160) has: a rectifier for producing a direct current from one or more supply lines of an AC power supply connected to a motor or other device protected by the overload relay; and at least one transformer (168a, 168b, 168c) for coupling the power supply unit to the overload relay.