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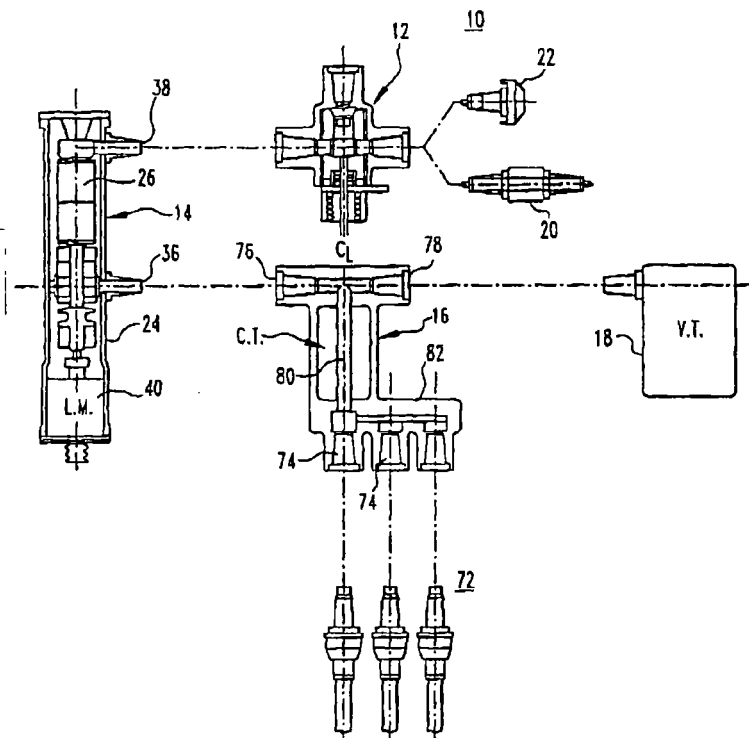
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(54) Title: MODULAR, MINIATURIZED SWITCHGEAR



(57) Abstract: A compact switchgear system (10) employing a number of modular components (12, 14, 16 and 18) that plug into their mating interface and are maintained in electrical isolation employing solid insulation (24, 70 and 82) in a manner that substantially shields the electrical conducting portions of the assembly from contact with lower voltage portions of the system. The assembly is primarily made up of five modules. A multi-phase load connector (16) having integral current monitoring transformers (80) for each of the respective phases; a voltage monitoring transformer (18) which plugs into the load connector (16); an in-line actuator and vacuum interrupter module (14), provided for each phase, which plugs into the load connector (16); a three position vacuum switch (12) connected between the vacuum interrupter module (14) and the line or ground; and an electronic control module (84) which receives inputs from the current and voltage monitors (80, 18), circuit relays, vacuum interrupter/in-line actuator module (14), and temperature sensors (94), and provides programmed, controlling outputs (96) to the in-line actuators of the respective vacuum interrupter modules (14).

WO 01/50561 A1



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