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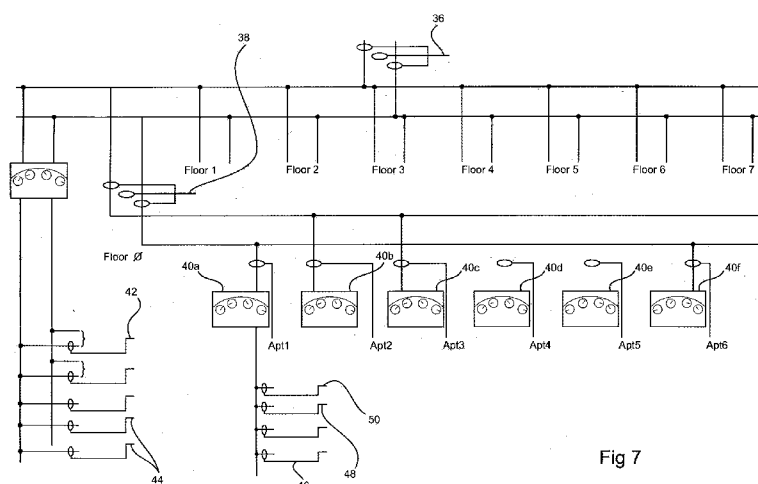


Fig 7

(57) Abstract: A portable electrical energy consumption diagnostic device (10) connects to electrical systems to acquire and analyse electrical data. The device has an onboard power supply (12), an energy monitoring means (14), a mini PC (16), a modem/router (18), CT adaptors (20) and an interface (22), all housed in a portable container (24), such as a hard case. The device (10) is connected to external electrical connector(s) (CT inputs) (26, 32) to temporarily connect the device to an electrical supply of electrical equipment. Electrical data acquisition means and an onboard electrical data processing means determine electrical consumption characteristics of monitored equipment over a period of time, such as lighting, air conditioning, elevators, pumps, motors etc. Optional transmission means transmits the acquired electrical data to a remote electrical data processor for remote electrical data processing. The onboard or remote data processor generating report data relating to the electrical energy consumption.