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(54) **Title**: A SYSTEM AND METHOD OF REMOTELY CONNECTING AND DISCONNECTING THE AUXILIARY POWER SUPPLY OF A FREQUENCY INVERTER FOR VARIABLE CAPACITY COMPRESSOR EMPLOYED IN COOLING SYSTEMS

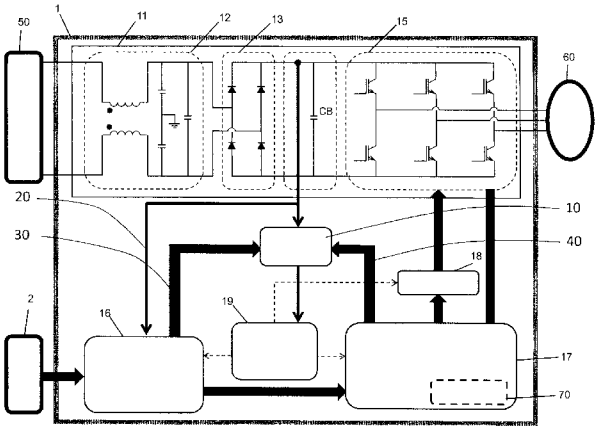


FIG. 5

(57) **Abstract**: The present invention refers to a system and a method of remotely connecting and disconnecting an auxiliary power supply (19) of the frequency inverter for variable capacity compressors employed in cooling systems, wherein the inverter comprises a circuit breaker (10) which acts such that when it receives an external signal to activate the auxiliary power supply (30) indicating that the auxiliary supply (19) should be connected, the circuit breaker (10) enables the running of the auxiliary power supply (19), which activates the running of the inverter, and the inverter begins sending, continually, the internal maintenance signal to activate the auxiliary supply (40) to the circuit breaker (10) indicating that the auxiliary supply should be kept running, making the circuit breaker maintain the auxiliary power supply (19) enabled, and when the circuit breaker (10) receives an external deactivation signal from the auxiliary supply (30) indicating that the auxiliary supply should be disconnected, the inverter stops sending the signal to maintain the auxiliary supply activated (40) to the circuit breaker (10), and the circuit breaker (10) disables the auxiliary power supply (19), deactivating the running of the inverter.

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