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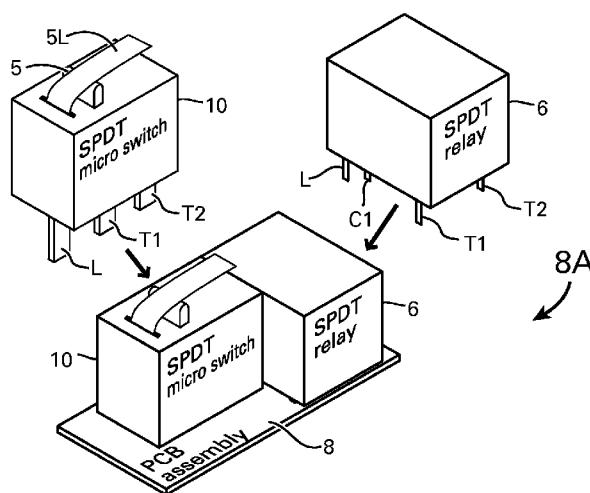
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(54) Title: MECHANICAL LATCHING RELAYS AND HYBRID SWITCHES WITH LATCHING RELAYS FOR USE IN ELECTRICAL AUTOMATION

FIG. 3A



(57) Abstract: Method and apparatus for a mechanical latching of at least one pole of a relay selected from SPST, SPDT, DPDT, reversing DPDT, multi pole MPST and MPDT including the integration of one of a single and plurality of hybrid SPDT or DPDT switches with one of SPDT and DPDT mechanically latching relay using conductive structured contactors to connect the poles of the relay and the switch including PCB assembly, for operating electrical loads via the switch manual key and remotely by powering the relay coil by a power pulse, including a CPU program for providing any of the manual keys of each SPDT or DPDT connected in a traveler lines to the integrated switch-relay to switch on-off group of loads and all the loads of home automation network or grid via optical cable, RF, IR in line of sight and bus line.