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McNally et al.

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(54) **INTELLIGENT POWER DISTRIBUTION SYSTEM**

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(57) **ABSTRACT**

An intelligent power distribution system including one or more intelligent power strips. The power strips can each include an elongated housing that may be adapted for mounting in an equipment rack. The housing can include a first end, a second end and plurality of power outlets mounted thereon. The first end can have a number of apertures that enable power and signal conductors to enter an interior region of the housing. The second end can include a first and a second communication port. The first communication port may be adapted to enable a computer to communicate with the power the strip. The second communication port may be adapted to enable the power the strip to be daisy chained with a second intelligent power strip. The power strip further includes power management circuitry that can power-on and power-off the power outlets in accordance with an operator defined sequence and delays. The power management circuitry can further sense electrical current drawn by the power strip and control operation of the power strip based on the sensed electrical current to minimize branch circuit breaker tripping.

(21) Appl. No.: **09/688,298**

(22) Filed: **Oct. 13, 2000**

(51) **Int. Cl.**⁷ **H01H 47/00**

(52) **U.S. Cl.** **361/166; 361/191; 307/41**

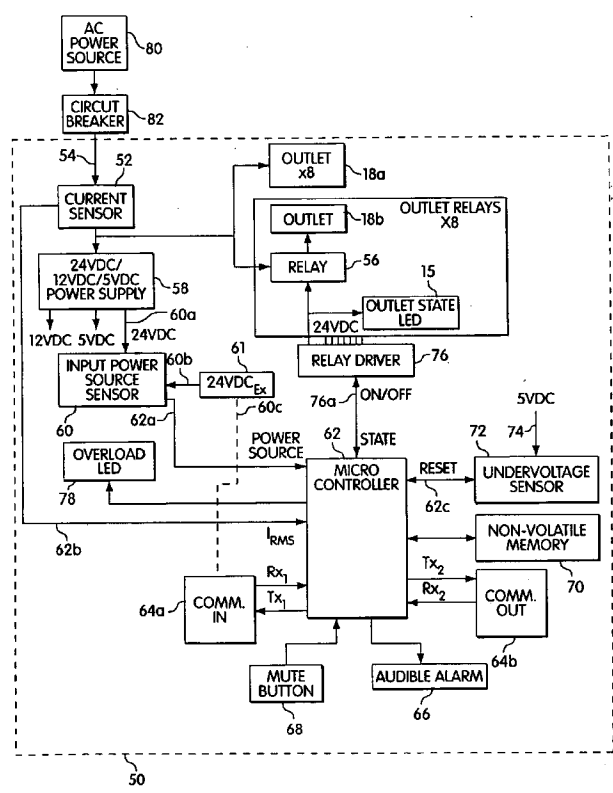
(58) **Field of Search** 361/160, 166,
361/167, 191-193; 307/29, 38, 39, 41,
115, 125, 126, 141, 141.4, 143

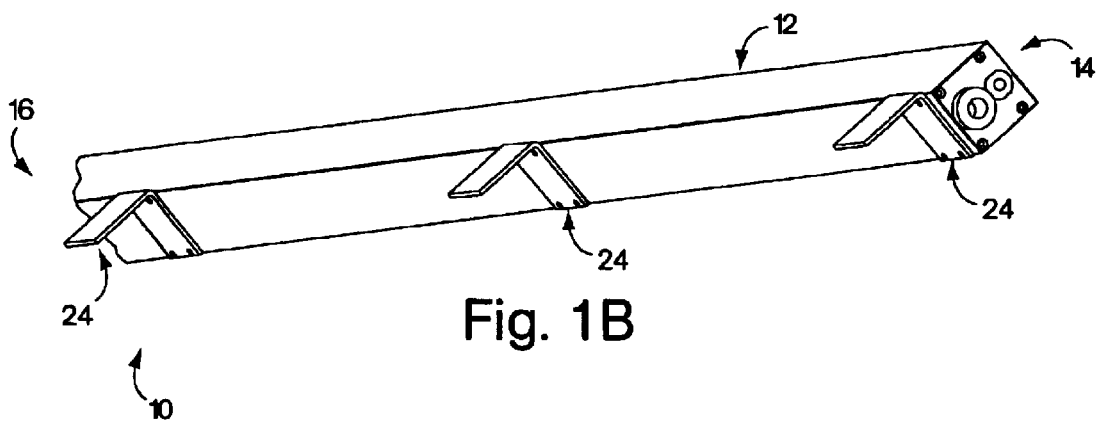
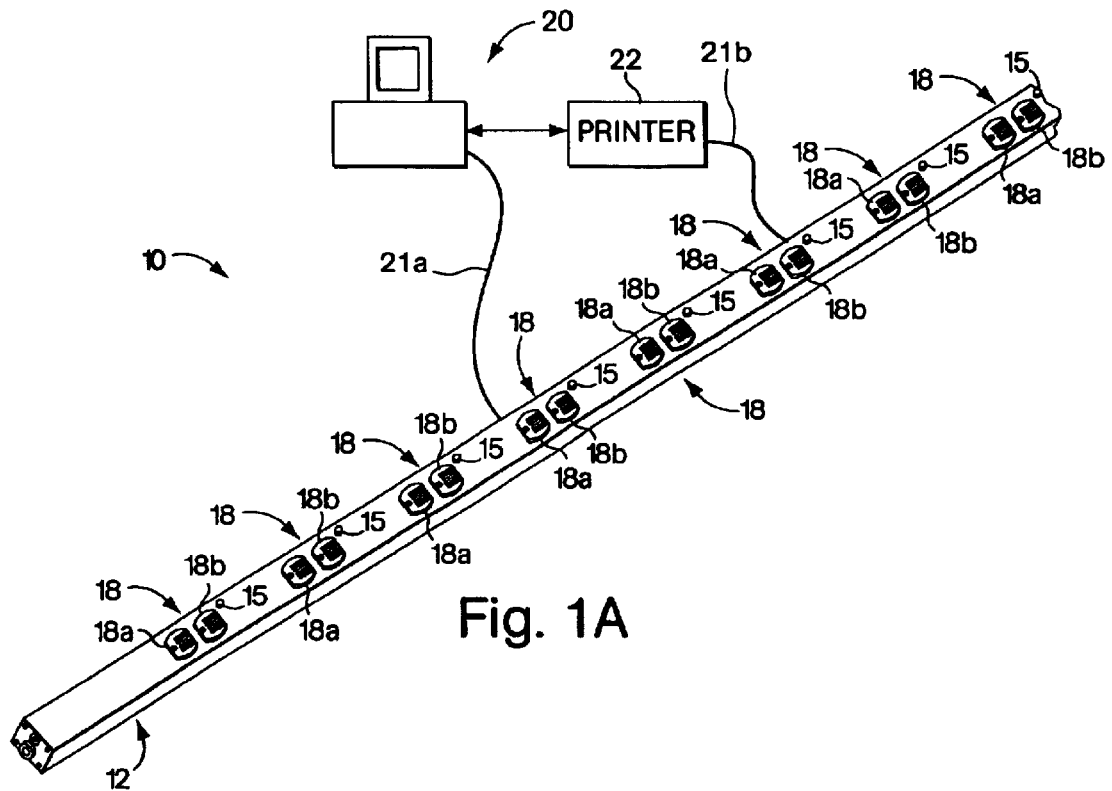
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26 Claims, 5 Drawing Sheets





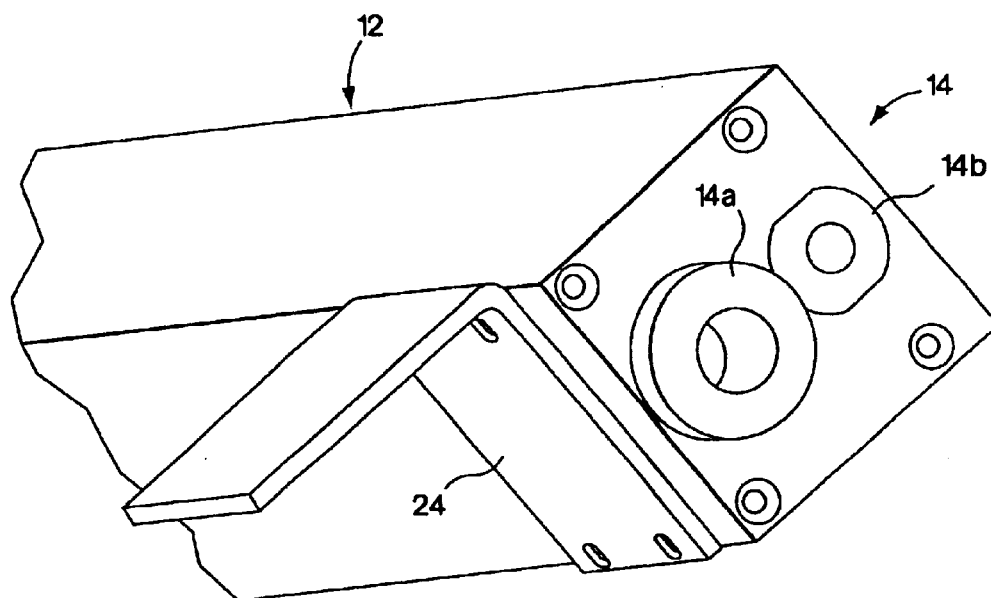


Fig. 2A

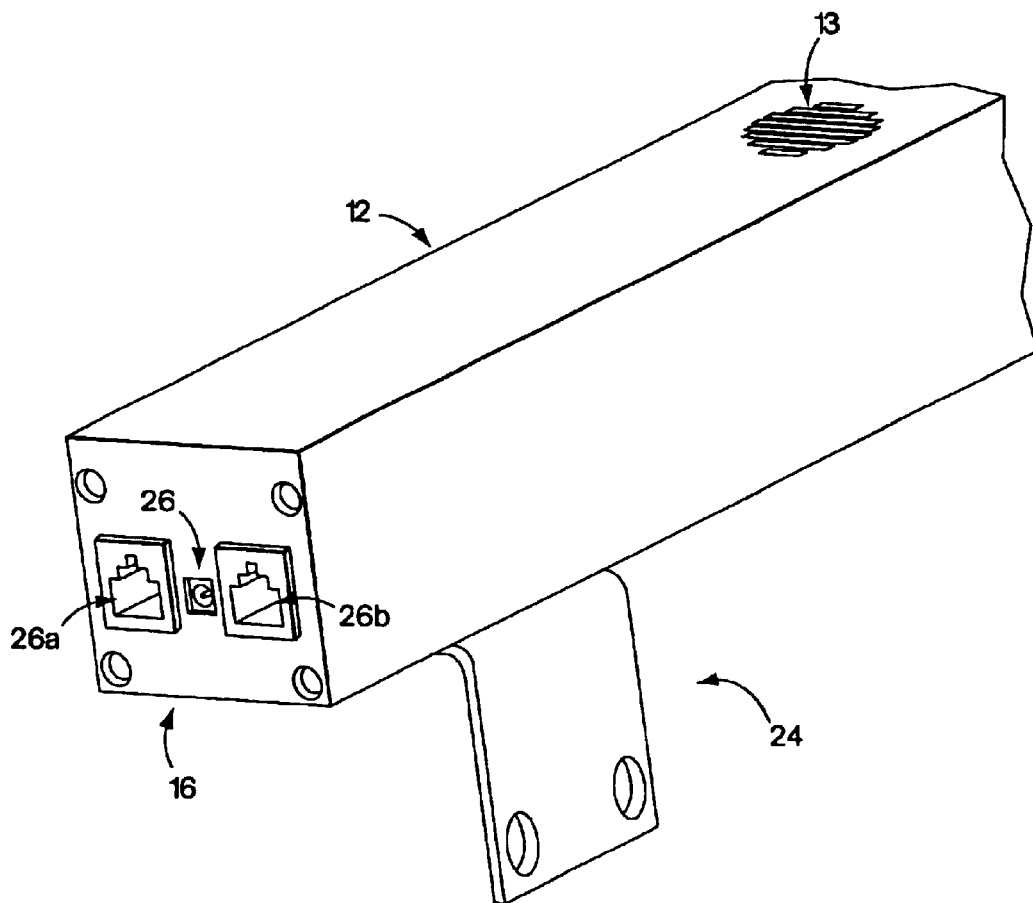


Fig. 2B

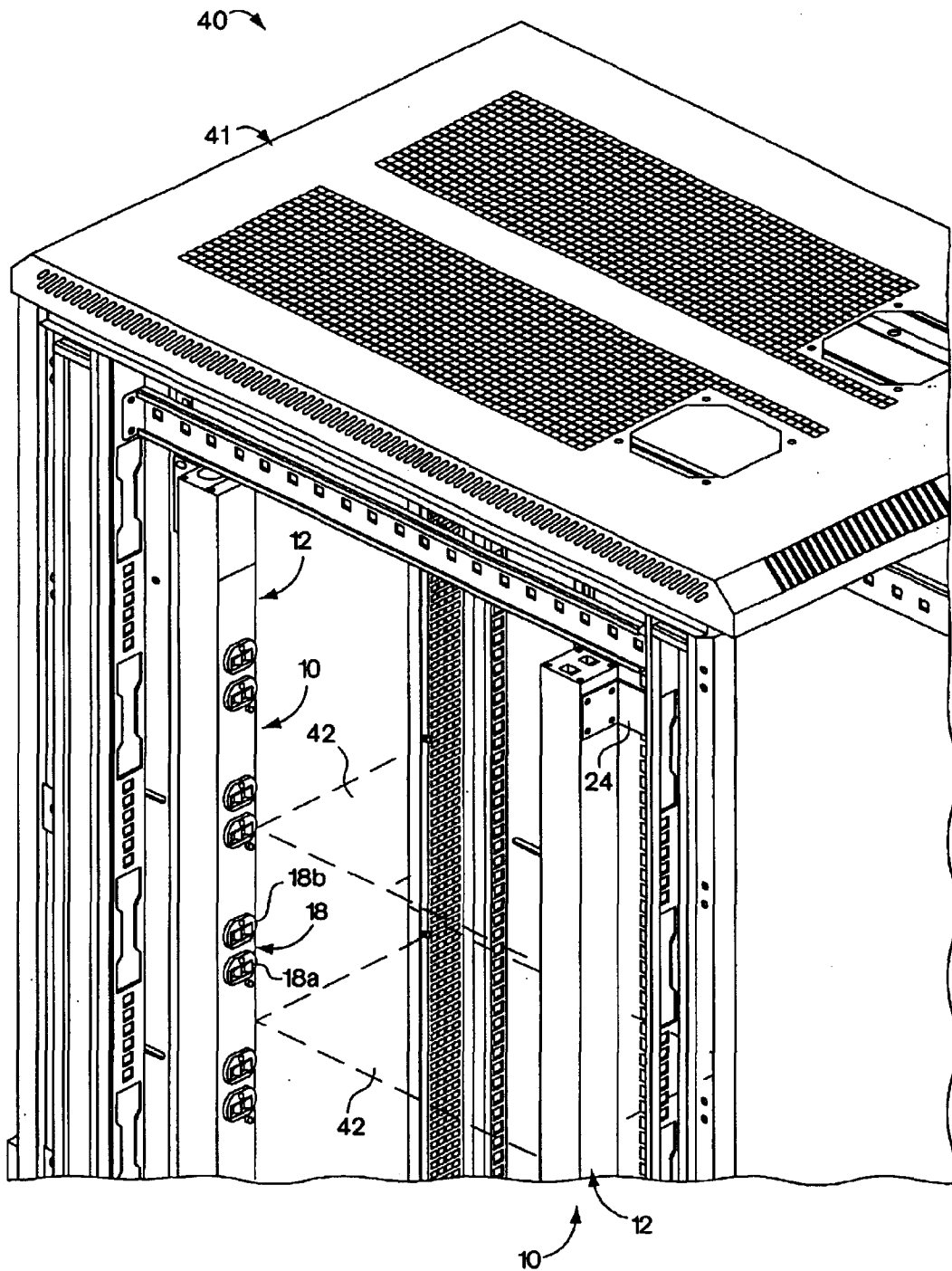


Fig. 3

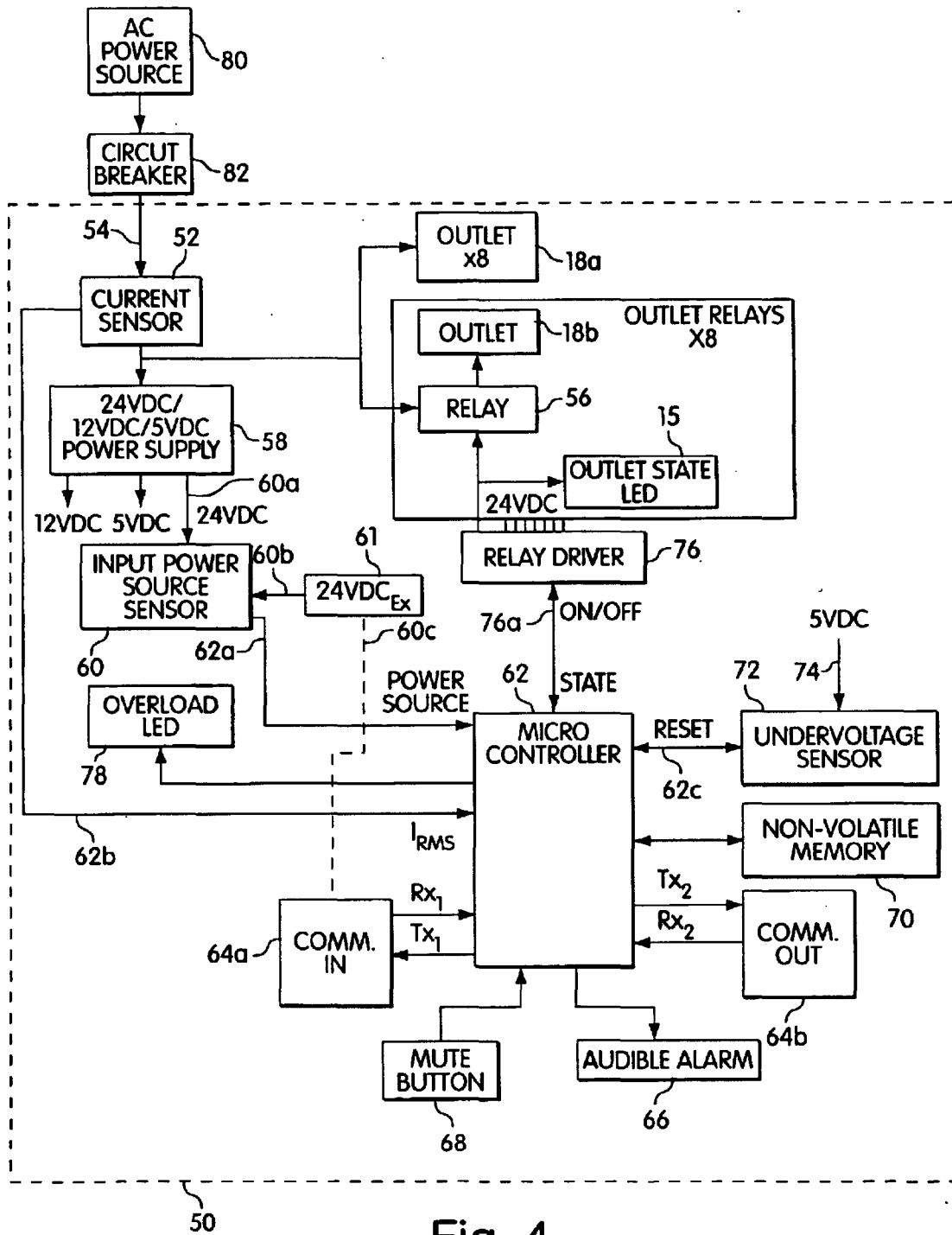


Fig. 4

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