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(71) Applicant (for all designated States except US): **INDICE PTY LTD** [AU/AU]; Suite G.05, 175 Sturt Street, Southbank, Victoria 3006 (AU).

(72) Inventors: **BROWN, Aaron**; Unit 3/166 Surrey Road, Blackburn North, Victoria 3130 (AU). **HAMMOND, James**; 7/40-44 Edgevale Road, Kew, Victoria 3101 (AU). **KNOTT, Alex**; 1/10 May Street, Elwood, Victoria 3184 (AU).

(74) Agent: **MILLS OAKLEY LAWYERS**; Level 4, 121 William Street, Melbourne, Victoria 3000 (AU).

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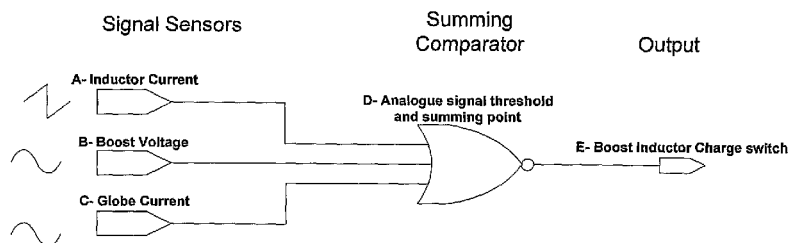


figure 2: controller abstract logical view

FIGURE 2

(57) Abstract: An apparatus for driving a voltage source such as a discharge or LED lamp using a power booster receiving an AC voltage source configured through an inductor to turn on and off periodically in response to a duty cycle of a dimming control signal or a transformer starting a new cycle, for regulating a low voltage AC signal. The booster control circuitry adjusting the current feed to a determined target boost voltage according to sensed input from primarily a single comparator which compares any one of (but not limited to) a) the output boosted voltage, b) the globe current, or c) the inductor input current.