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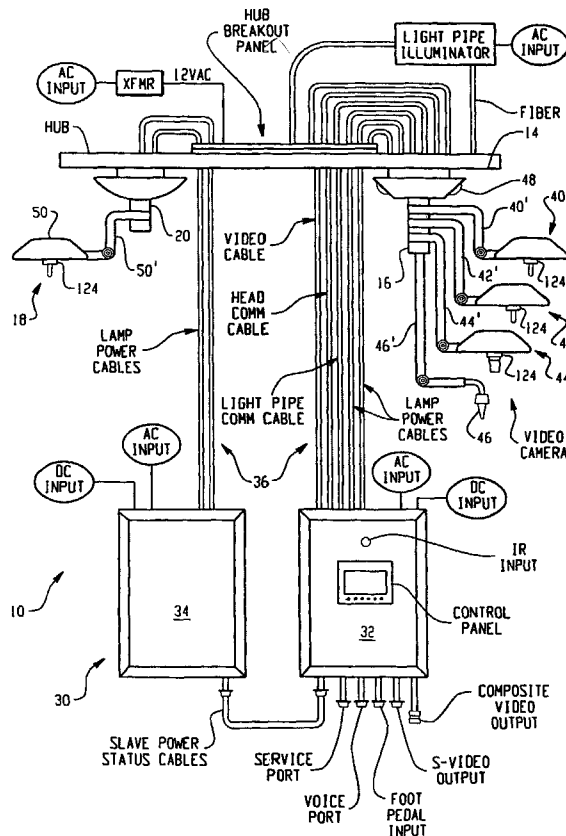
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(54) Title: SURGICAL LIGHTING CONTROL VIDEO SYSTEM



(57) Abstract: A surgical light system (10) includes a lighthouse (44) coupled to a suspension arm (41') adapted for mounting to a surface (14) of a surgical room. A bulb (130) is disposed in the lighthouse. A processor (120) in the lighthouse is operatively coupled with the bulb for controlling an intensity of light of the bulb and is adapted to generate a lighthouse status signal representative of a first status of the lighthouse. A control apparatus (32, 34) is in operative communication with the processor (120) in the lighthouse. The control apparatus receives the lighthouse status signal and selects a set of control algorithms from among a group of algorithms based on the lighthouse status signal for controlling the lighthouse. The lighthouse status signal includes information regarding a size of the lighthouse, an intensity of light from the bulb, a condition of the bulb, a level of current applied to the bulb, a level of voltage applied to the bulb, an internal temperature of the lighthouse, and the presence of one or more of a video camera, a surgical task light, and a controllable ambient light. A human-readable display device (160) is provided for displaying information relating to the lighthouse status signal. Several levels of redundancy are provided in the control system to minimize the potential loss of control due to failures. In that regard, the lighthouses are operable when the control apparatus (32, 34) fails.



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