

[12] Patent

[11] Patent No.: GC 0000137	Number of the Decision to Grant the Patent: 4/2176
[45] Date of Publishing the Grant of the Patent: 29/06/2005 4/2005	Date of the Decision to Grant the Patent: 27/12/2004
[21] Application No.: GCC/P/2000/809 [22] Filing Date: 09/08/2000 [72] Inventors: 1- Robert P. Tomas, 2- John S. Vandevanter [73] Owner: General Electric Company, 1 River Road, Schenectady, New York, USA [74] Agent: Suleiman Ibrahim Al-Ammar	[51] Int. Cl. ⁷ : H02B 15/00; H01H 9/28; G05B 23/02 [56] Cited Documents: - US 5970437 A (GORMAN et al.) 19 October 1999 - "Lockout Energy Control Placarding for Power Distribution Equipment" IEEE Industrial and Commercial Power Systems Technical Conference, (DOWNEY R. E. et al.) August 1999

[54] MAN-MACHINE INTERFACE FOR A VIRTUAL LOCKOUT/TAGOUT PANEL DISPLAY

[57] Abstract: A three dimensional power management control system (10) provides control and graphical representation of a plurality of electrical devices and components (11) of an electrical distribution system (12). The PMCS (10) includes a graphical representation of tagout/lockout displays (32, 34) (i.e., Danger and Ground Tags) representative of a physical lockout/tagout tag attached locally to a device (11) of the electrical distribution system (12). The graphical displays (32, 34) include a large bit map representative of a Danger tag (32) and a Ground Tag (34) installed on a device (11), and representative symbols displayed at other graphical and tabular data displays associated with the tagged device (11). The implementation of the virtual lockout/tagout displays (32, 34) is automated using software, namely a Tagging Wizard. The Tagging Wizard provides automated configuration of the lockout/tagout graphic (32, 34) and the ability to install and remove virtual tagout displays associated with the graphical representation of the device (11) of the distribution system (12). The Tagging Wizard logically links a one-line wizard associated with each graphical and/or tabular representation a common device to a common discrete memory tag for storing the tagged condition of a device (11). A "Tag Menu" window (44) includes an install and remove button (46 - 49) for each lockout/tagout tag (32, 34) that when selected stores data in the memory tag.

No. of claims: 17

No. of figures: 12

