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(54) **MALE AND FEMALE ELECTRICAL CONNECTORS WITH TERMINAL LOCKING DEVICE FOR DETECTING INSERTED CONDITION OF TERMINALS AND CONNECTOR ASSEMBLY**

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(52) **U.S. Cl.** **439/752**

(58) **Field of Search** **439/752**

(56) **References Cited**

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(57) **ABSTRACT**

A male connector (1A) consists of a male housing body (20) with a terminal receiving cavity (21), which has a hood (22), a female terminal holder (5A) which is assembled to the male housing body (20) inside the hood (22), and a female terminal locking device (4A) slidably engageable in preliminary and full locked positions on the female terminal holder (5A). A female connector (1B) consists of a female housing body (70) with a terminal receiving cavity (71), which has a hood (73), a holder receiving section (72) between the female housing body and the hood, a male terminal holder (5B), and a male terminal locking device (4B) which is slidably engageable in preliminary and full locked positions on male terminal holder (5B). An inserted condition of a terminal in the terminal receiving cavity (21, 71) can be detected. The male and female connectors (1A, 1B) are coupled to provide an electrical connector assembly.

8 Claims, 18 Drawing Sheets

