

Bus-bar Arrangement For Electric Distribution

ABSTRACT

[0038] The present invention provides a bus-bar assembly (100) for 3-phase electricity distribution. In one embodiment, a neutral phase bus-bar is additionally provided for both 1-phase and 3-phases electricity distribution. Each bus-bar (102,104,106) is integrally formed with contact fingers (130) such that when the bus-bars (102,104,106) are assembled in a substantially parallel and spaced apart manner on a base plate (170), the contact fingers (130) are interspersed, ordered in a cyclic manner for 3-phase electric circuit. The contact fingers (130) are dimensioned to fit and engage with inlet points of circuit breakers CB (190) for electricity distribution. Hollow bushings (116) or hollow bosses (143) with stepped shoulders, in addition to washers (117), are used to electrically insulate each bus-bar (102,104,106) from the base plate (170). The bus-bar assembly (100) of the present invention was found to withstand severe short-circuit tests.

[0039] FIG. 2A for publication.