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(54) **LOSSES REDUCTION FOR ELECTRICAL POWER DISTRIBUTION**

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- See application file for complete search history.

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(57) **ABSTRACT**

A transformer apparatus that may be applied as a distribution circuit adaptor (DCA) inserted into a branch supply circuit to reduce losses in a power distribution network. More particularly, implementations of the present disclosure provide a high-efficiency 2-phase dry type transformer apparatus with a removable core, as well as integrated instrumentation and thermal self-management.

**11 Claims, 10 Drawing Sheets**

