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(54) **CONTROL APPARATUS FOR AN ARCP
INVERTER**

(52) **U.S. Cl.**

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(57)

ABSTRACT

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A control apparatus for ARCP (Auxiliary Resonant Com-
muted Pole) power inverters include a modulator and a
modulation control. The modulator is configured to carry out
a commutation of an ARCP inverter by selectively using a
Continuous PWM (CPWM) modulation and a Discontinu-
ous PWM (DPWM) modulation. The modulation control is
configured to dynamically select either the CPWM modu-
lation or the DPWM modulation in a such a way that
switching losses of the ARCP inverter are reduced while a
failure of the commutation of the ARCP inverter due to a
neutral point voltage unbalance of the ARCP inverter is
avoided.

(30) **Foreign Application Priority Data**

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