

ABSTRACT

According to the present invention, currents flowing in a transformer for outputting plural sets of three-phase currents given to a multiple rectifier circuit are easily made close to sinusoidal waves. Choppers (41, 42) are provided respectively in the
5 output stages of two diode bridges (31, 32), and their output sides are connected in parallel to a smoothing capacitor (5). By controlling the operations of the two choppers (41, 42), the currents which are allowed to be inputted to the diode bridges (31, 32) are made triangular waves of mutually opposite phases, or middle-phase waveforms of three phases.