

Title (en)

Inverter capable of controlling operating frequency.

Title (de)

Arbeitsfrequenzbestimmender Wechselrichter.

Title (fr)

Onduleur capable de contrôler la fréquence de service.

Publication

EP 0388492 A1 19900926 (EN)

Application

EP 89105131 A 19890322

Priority

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Abstract (en)

An inverter is made up of a parallel circuit as voltage resonance circuit (201), and first diode (14), which are connected in series between both ends of a power source (102). Circuit (201) includes primary winding (2021) of output transformer (202), and resonance capacitor (204). First diode (14) is connected at the cathode to primary winding (2021) of transformer (202). Secondary winding (2022) of transformer (202) is coupled with load (12) such as a discharge lamp. The cathode and anode of first diode (14) are respectively connected to the collector and emitter of transistor (302). A series circuit of second diode (402) and capacitor (404) is connected across the collector-emitter path of transistor (302). Second diode (402) is forwardly arranged with respect to transistor (302). Voltage detector (501) comprises capacitor (404) and two resistors (406, 408) which are connected in series, and connected across capacitor (404). The output voltage is derived from the node of those resistors (406, 408). Error amplifier (504) compares the output voltage of voltage detector (401) and an output voltage from reference voltage source (502). VCO (506) oscillates at a switching frequency based on the comparison result. The oscillation output signal is applied to the base of transistor (302).

IPC 1-7

H05B 41/29

IPC 8 full level

H05B 41/28 (2006.01)

CPC (source: EP)

H05B 41/28 (2013.01)

Citation (search report)

- [A] DE 3315481 A1 19841031 - KRAUSS INNOVATRON [CH]
- [A] EP 0063974 A1 19821103 - SEFLI SOC EQUIP FAB LUMINESCEN [FR], et al
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EP0359210A3

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 0388492 A1 19900926; EP 0388492 B1 19940126; DE 68912764 D1 19940310; DE 68912764 T2 19940511

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