

Title (en)

HIGH FREQUENCY RECOVERY DRIVING SYSTEM.

Title (de)

HOCHFREQUENZWIEDERHERSTELLUNGS- UND ANTRIEBSSYSTEM.

Title (fr)

SYSTEME D'ENTRAINEMENT ET DE RETABLISSEMENT POUR HAUTE FREQUENCE.

Publication

EP 0166773 A4 19870428 (EN)

Application

EP 85900533 A 19841217

Priority

GR 830173274 A 19831216

Abstract (en)

[origin: WO8502728A1] Electrical driving and recovery system (10) for a high frequency environment. Also, a recovery system (10) that can be applied to the present day direct-current or alternating-current loads for better efficiency having a low-voltage source (18) coupled to a vibrator (20), a transformer (22) and a bridge-type rectifier (24) to provide a high-voltage pulsating signal to a first capacitor (16). Where high-voltage source is available couple direct to a bridge-type rectifier (24), causing a pulsating signal to a first capacitor (16). The capacitor (16) in turn is coupled to a high-voltage anode (12) of an electrical conversion switching element tube (14). The switching element tube (14) also includes a low-voltage anode (32) which in turn is connected to a voltage source (18) by a commutator (26) and a switching element tube (28). Mounted around the high voltage anode (12) is a charge receiving plate (34) which in turn is coupled to an inductive load (36) to transmit a high-voltage discharge from the switching element tube (14) to the load (36). Also, coupled to the load (36) is a second capacitor (38) for storing the back EMF created by the collapsing electrical field of the load (36) when the current to the load is blocked. The second capacitor (38) in turn is coupled to the voltage source (40). When adapted to present day direct-current or alternating-current devices the load (36) could be a battery or capacitor to enhance the productivity of electrical energy.

IPC 1-7

H02M 7/00

IPC 8 full level

H02M 7/00 (2006.01); **H02M 7/40** (2006.01)

CPC (source: EP)

H02M 7/40 (2013.01)

Citation (search report)

- [A] US 4258405 A 19810324 - STEINGROEVER ERICH A
- [A] GB 1261496 A 19720126 - IKOR INC [US]
- [A] DE 1149450 B 19630530 - LICENTIA GMBH
- [A] US 3127573 A 19640331 - WEIL THOMAS A
- [A] SOVIET INVENTIONS ILLUSTRATED, Derwent Publications Ltd, London, GB; & SU-A-179 841 (KOZLOV, V. S.) 28th November 1966
- See references of WO 8502728A1

Designated contracting state (EPC)

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