Title (en)

DEVICE FOR GENERATION OF VOLTAGE PULSE SEQUENCES IN PARTICULAR FOR OPERATION OF CAPACITIVE DISCHARGE LAMPS

Title (de)

VORRICHTUNG ZUR ERZEUGUNG VON ELEKTRISCHEN SPANNUNGSIMPULSFOLGEN, INSBESONDERE ZUM BETRIEB VON KAPAZITIVEN ENTLADUNGSLAMPEN

Title (fr)

DISPOSITIF POUR PRODUIRE UN TRAIN D'IMPULSIONS DE TENSION ELECTRIQUE, NOTAMMENT POUR FAIRE FONCTIONNER DES LAMPES A DECHARGE CAPACITIVE

Publication

EP 1741319 A1 20070110 (DE)

Application

EP 05747449 A 20050429

Priority

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Abstract (en)

[origin: WO2005107339A1] The invention relates to a device for the generation of electrical voltage pulse sequences, in particular, for the operation of capacitive discharge lamps, with at least two controllable switch elements (S1, S2), for the generation of unipolar or bipolar voltage pulse sequences from the DC voltage applied to an input from a voltage source. The device is characterised in that a storage choke (L1), operated as controlled voltage source by means of the switch elements (S1, S2), is arranged between the switch elements (S1, S2), such that the rise time for voltage pulses in the voltage pulse sequence at a load coupled to the output may be influenced by the charging time of the storage choke (L1) which is adjusted by means of the switching elements (Sl, S2) and that reverse diodes connect the storage choke (L1) to the plus or minus pole of the DC voltage source for recovery of unneeded choke energy. Said device permits the production of a ballast for dielectrically hindered discharge lamps, which self-adjusts to the capacitance of the relevant discharge lamp.

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