

Title (en)
CIRCUIT ARRANGEMENT FOR IGNITING OF HIGH-PRESSURE GAS DISCHARGE LAMPS

Title (de)
SCHALTUNGSANORDNUNG ZUM ZÜNDEN EINER HOCHDRUCKGASENTLADUNGSLAMPE

Title (fr)
MONTAGE POUR L'ALLUMAGE DE LAMPES LUMINESCENTES A GAZ A HAUTE PRESSION

Publication
EP 0856240 A1 19980805 (DE)

Application
EP 97915283 A 19970212

Priority
• DE 9700256 W 19970212
• DE 19608658 A 19960306

Abstract (en)
[origin: DE19608658C1] The invention relates to a circuit arrangement for igniting a high-pressure gas discharge lamp (1). Said arrangement contains a bridge circuit (10) in which two controlled switching transistors (11, 12) are arranged in at least one branch. The high-pressure gas discharge lamp (1) is supplied by way of the bridge branch (13-16) of the bridge circuit (10) with igniting and burning power, the primary winding (9) of a transformer (7) being arranged in the bridge branch. An oscillating circuit (6, 8) is arranged on the secondary winding (6) of said transformer, the high-pressure gas discharge lamp (1) being supplied with burning and igniting power by said oscillating circuit (6, 8) on the secondary side. Burning and ignition function are performed with high frequency. The transformation ratio (\ddot{u}_Z) of the transformer (7) is increased, in relation to the transformation ratio (\ddot{u}_B) when the high-pressure gas discharge lamp (1) is in operation, to ignite the high-pressure gas discharge lamp (1). Said increase is carried out, in particular, by transistor(30)-controlled short-circuiting of a part (9K) of the primary winding (9) of the transformer (7) during ignition.

IPC 1-7
H05B 41/38; **H05B 41/29**

IPC 8 full level
H05B 41/24 (2006.01); **H05B 41/288** (2006.01); **H05B 41/38** (2006.01)

CPC (source: EP KR)
H05B 41/24 (2013.01 - KR); **H05B 41/2881** (2013.01 - EP); **H05B 41/382** (2013.01 - EP); **Y02B 20/00** (2013.01 - EP)

Citation (search report)
See references of WO 9733456A1

Designated contracting state (EPC)
DE ES FR GB IT SE

DOCDB simple family (publication)
DE 19608658 C1 19970507; EP 0856240 A1 19980805; JP H11504758 A 19990427; KR 19990008296 A 19990125; WO 9733456 A1 19970912

DOCDB simple family (application)
DE 19608658 A 19960306; DE 9700256 W 19970212; EP 97915283 A 19970212; JP 53131897 A 19970212; KR 19970707822 A 19971104