

Title (en)

Triggered commutation spark gap.

Title (de)

Triggerbare Schaltfunkenstrecke.

Title (fr)

Eclateur de commutation déclenchable.

Publication

EP 0425736 B1 19950719 (DE)

Application

EP 89250072 A 19891102

Priority

EP 89250072 A 19891102

Abstract (en)

[origin: EP0425736A1] The triggered commutation spark gap consists of two main electrodes, which are insulated from one another, and a trigger electrode which can be driven galvanically and is arranged in the centre of a circular opening in the one main electrode. According to the invention, the distance (a) between the two main electrodes (2, 3) is greater by a factor of 1.1 to 2.3, preferably by a factor of 1.4 to 1.7, than the width (b) of the annular gap (10) between the trigger electrode (6) and the associated main electrode (3); in addition, the circumferential edge of the trigger electrode which is arranged flush with the discharge surface of the associated main electrode has a radius of curvature of less than or equal to 0.1 mm, and the trigger electrode (6) and the associated main electrode (3) are coated with an activation compound (11) containing silver. As a result of the combination of these measures, the delay time of the commutation spark gap can be reduced to values of less than or equal to 0.5 μ s.

<IMAGE>

IPC 1-7

H01T 2/02

IPC 8 full level

H01T 2/02 (2006.01)

CPC (source: EP US)

H01T 2/02 (2013.01 - EP US)

Citation (examination)

Prospekt "EEV Spark Gaps For Voltage Surge Protection And High Energy Pulsed Switching" der Fa. EEV

Cited by

DE102017126371A1; DE10066231B4; DE10018012A1; DE10018012B4; US11431154B2

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