

Title (en)
X-ray impulse generator.

Title (de)
Röntgenstrahlen-Impulsgenerator.

Title (fr)
Générateur d'impulsions de rayons X.

Publication
EP 0651596 A1 19950503 (EN)

Application
EP 94850188 A 19941024

Priority
RU 93047770 A 19931022

Abstract (en)
The X-ray impulse generator (1) in its grounded metal casing (2), includes a high voltage impulse transformer with coaxial outer primary winding and coaxial inner secondary winding (9), discharge capacitor (Cp), discharge amplifier (4) and X-ray impulse tube (5). The discharge capacitor (Cp) is formed of the casing and the cylinder shaped electrode (14) which is arranged coaxially with this, and which is electrically connected to the secondary winding (9) of the high voltage impulse transformer. In the cylinder shaped electrode (14) a discharge amplifier (4) is arranged, one electrode of which is electrically connected to the cylinder shaped electrode (14), while the other electrode is connected to the high voltage electrode of the X-ray impulse tube (5). Additionally a metal tube and ferrous bars (12) are inserted in the X-ray impulse generator (1). The secondary winding (9) of the impulse transformer is arranged as a helix shaped as envelope, truncated cone, where the narrow end is situated against the cylinder shaped electrode (14). The metal tube is arranged coaxially inside the secondary winding (9) of the impulse transformer and is electrically connected to the high voltage terminal of the secondary winding (9), while the ferrous bars (12) are arranged uniformly round along the cylinder shaped top surface of the metal tube (5). <IMAGE>

IPC 1-7
H05G 1/06; **H05G 1/24**

IPC 8 full level
H05G 1/06 (2006.01); **H05G 1/24** (2006.01)

CPC (source: EP)
H05G 1/06 (2013.01); **H05G 1/24** (2013.01)

Citation (search report)

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