

Title (en)

X-ray apparatus with a power supply unit for an x-ray tube

Title (de)

Röntgen-Gerät mit einer Einheit für die Leistungsversorgung einer Röntgenröhre

Title (fr)

Appareil à rayons X comportant une unité pour l'alimentation en puissance d'un tube à rayons X

Publication

EP 0716561 B1 20040218 (DE)

Application

EP 95203284 A 19951129

Priority

DE 4443551 A 19941207

Abstract (en)

[origin: EP0716561A1] The power supply stage is used to supply the X-ray tube (4) via a HV transformer (3) with 2 groups of primary and secondary windings (16, 31; 26, 32) which are wound on the same transformer core. The coupling factor between the primary windings (16, 26) of the different winding groups is less than the coupling factor between the primary and secondary windings of the same winding group. Each of the primary windings is coupled to a respective current regulator (1, 2) with a fixed operating frequency and an individually regulated pulse ratio, providing overlapping voltage pulses.

IPC 1-7

H05G 1/20

IPC 8 full level

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CPC (source: EP US)

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EP 0716561 A1 19960612; **EP 0716561 B1 20040218**; DE 4443551 A1 19960620; DE 59510860 D1 20040325; JP 3683318 B2 20050817; JP H08255694 A 19961001; US 5731968 A 19980324

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EP 95203284 A 19951129; DE 4443551 A 19941207; DE 59510860 T 19951129; JP 31689695 A 19951205; US 56808495 A 19951206