

Title (en)

POWER SUPPLY CIRCUIT FOR AN X-RAY SOURCE FOR USE IN RADIOLOGY

Publication

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Application

EP 85401754 A 19850909

Priority

FR 8414153 A 19840914

Abstract (en)

[origin: US4730352A] The invention relates to a supply circuit for an X-ray emitter usable in radiology. The circuit has a transformer, whereof the primary is connected to the three-phase power supply and whereof the secondary is connected to the X-ray emitter. The primary circuit is put into operation by the closing of a controlled switch. This switch has a set of closing thyristors. The switch also has a correctly charged capacitor connectable to the set of thyristors. For opening the circuit, the capacitor is connected in such a way that it supplies a reverse current to the thyristors of the set of thyristors. Thus the capacitor is recharged with the reverse polarity. During a following closing - opening sequence of the switch, the terminals of the capacitor are connected to the set of thyristors by switching their connection. In this way, the capacitor is always correctly connected for fulfilling its function during the blocking of the thyristors.

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