

Title (en)
SCANNING RADIOGRAPHIC DEVICE (VARIANTS)

Title (de)
SCANNING-RADIOGRAPHIEEINRICHTUNG (VARIANTEN)

Title (fr)
DISPOSITIF DE RADIOGRAPHIE DE TYPE A FONCTIONNEMENT A BALAYAGE ET VARIANTES

Publication
EP 1648019 A4 20090506 (DE)

Application
EP 04748960 A 20040706

Priority
• RU 2004000266 W 20040706
• RU 2003120994 A 20030708

Abstract (en)
[origin: WO2005004190A1] The invention relates to a scanning radiographic device consisting of an ionising radiation source, a collimator (10) in the form of a longitudinal slit for forming a flat radiation beam (3) and a device for recording the radiation ray passed through a studied object. Said radiation ray recording device comprises data read out, processing and output electronic units (12) and at least one ionising particle detector. A flat capacitor provided with a nonslotted anode (7) and a cut into strips cathode (8) is arranged in the detector body (6) where the radiation passed through the studied object comes up. The length of the strips is selected according to a condition that X-radiation is entirely absorbed by gas. An individual accumulating capacitor whose charge is read out by an electronic unit is connected to each strip, thereby enabling the device to operate in an integrated mode. Said detector is also provided with additional inserts (9, 11) which are arranged at a radiation input and at the end along the ray trace, thereby reducing X-ray losses, setting a required resolution in the scanning direction and reducing requirements to a permissible vibration level and a calibration of the scanning system components

IPC 8 full level
G01T 5/12 (2006.01); **H01J 47/04** (2006.01); **H01J 47/02** (2006.01)

CPC (source: EP)
H01J 47/04 (2013.01)

Citation (search report)
• [X] US 4275305 A 19810623 - RACZ JANOS A, et al
• [X] WO 0159480 A1 20010816 - XCOUNTER AB [SE], et al
• [X] US 6518578 B1 20030211 - FRANCKE TOM [SE], et al
• [A] GB 1561007 A 19800213 - GEN ELECTRIC
• See references of WO 2005004190A1

Designated contracting state (EPC)
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