

Title (en)
MICROFOCUS X-RAY DEVICE

Title (de)
MIKROFOCUS-RÖNTGENEINRICHTUNG

Title (fr)
INSTALLATION RADIOGRAPHIQUE A MICROFOYER

Publication
EP 0815582 A1 19980107 (DE)

Application
EP 96907493 A 19960316

Priority
• DE 19509516 A 19950320
• EP 9601145 W 19960316

Abstract (en)
[origin: US5857008A] PCT No. PCT/EP96/01145 Sec. 371 Date Jan. 8, 1998 Sec. 102(e) Date Jan. 8, 1998 PCT Filed Mar. 16, 1996 PCT Pub. No. WO96/29723 PCT Pub. Date Sep. 26, 1996In microfocus X-ray equipment for enlarging radiographic short-time recordings, a focussed electron beam for the production of X-radiation (16) impinges on the retarding material of a target (23). In this case, the retarding material in the focal spot (22) passes over into the liquid aggregate state due to the high thermal loading. For this reason, the equipment is operated in pulsed operation, wherein the position of the focal spot (22) on the target (23) is, when each loading occurs, displaced relative to the previous position. The retarding material is arranged in a retarding layer (32) on a carrier layer (33) and the electron beam (16) impinges on the retarding layer (32) oriented perpendicularly to the electron beam (16). A control interrupts the irradiation at the latest when the carrier layer (33) starts to melt.

IPC 1-7
H01J 35/08; **H01J 35/24**

IPC 8 full level
G21K 7/00 (2006.01); **H01J 35/08** (2006.01); **H01J 35/24** (2006.01)

CPC (source: EP US)
G21K 7/00 (2013.01 - EP US); **H01J 35/116** (2019.04 - EP); **H01J 35/24** (2013.01 - EP US); **H01J 35/116** (2019.04 - US)

Citation (search report)
See references of WO 9629723A1

Cited by
DE10352334B4; DE102005053386A1; WO03081631A1

Designated contracting state (EPC)
AT BE CH DE FR GB IT LI NL

DOCDB simple family (publication)
US 5857008 A 19990105; AT E185021 T1 19991015; DE 19509516 C1 19960926; DE 59603163 D1 19991028; EP 0815582 A1 19980107; EP 0815582 B1 19990922; JP 3150703 B2 20010326; JP H10503618 A 19980331; WO 9629723 A1 19960926

DOCDB simple family (application)
US 91371498 A 19980108; AT 96907493 T 19960316; DE 19509516 A 19950320; DE 59603163 T 19960316; EP 9601145 W 19960316; EP 96907493 A 19960316; JP 52806796 A 19960316