

Title (en)

Radiation conversion screen for x-rays into large size luminous photons and X-ray image processing device with this screen

Title (de)

In grossen Lichtphotone Röntgenstrahlungsumwandlungsschirm und Röntgenaufnahmetechnik mit diesem Schirm

Title (fr)

Ecran de conversion de rayonnements X en photons lumineux de grande dimension et système de radiologie comportant cet écran

Publication

EP 1058273 A1 20001206 (FR)

Application

EP 00401506 A 20000529

Priority

FR 9906869 A 19990601

Abstract (en)

The conversion screen comprises a rigid silicon carbide or boron carbide backing plate (20) which is transparent to X-rays. It has one face (20a) able to receive and transmit X-rays and a second face (20b) coated with a layer of sodium iodide (22) to convert the X-rays transmitted by the plate into visible light photons. The conversion screen comprises a rigid silicon carbide or boron carbide backing plate (20) which is transparent to X-rays. It has one face (20a) able to receive and transmit X-rays and a second face (20b) coated with a layer of sodium iodide (22) to convert the X-rays transmitted by the plate into visible light photons. It also has a layer of a visible light reflecting material (24) between the backing plate and sodium iodide layer. An Independent claim is also included for a digital radiology system comprising the above screen, and an X-ray emitter, a receiver and converter, and a digital detector and image display.

IPC 1-7

G21K 4/00

IPC 8 full level

G21K 4/00 (2006.01)

CPC (source: EP)

G21K 4/00 (2013.01); **G21K 2004/06** (2013.01); **G21K 2004/10** (2013.01); **G21K 2004/12** (2013.01)

Citation (search report)

- [A] EP 0188274 A2 19860723 - FUJI PHOTO FILM CO LTD [JP]
- [A] EP 0199426 A2 19861029 - PHILIPS NV [NL]

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