

Title (en)

Light-sensitive elements for radiographic use and process for the formation of an x-ray image.

Title (de)

Lichtempfindliche Elemente zur radiografischen Verwendung und Verfahren zur Herstellung eines Röntgenbildes.

Title (fr)

Éléments photosensibles pour l'utilisation radiographique et procédé de production d'une radiographie.

Publication

EP 0403874 A1 19901227 (EN)

Application

EP 90110680 A 19900606

Priority

IT 2088389 A 19890615

Abstract (en)

A light-sensitive silver halide element for radiographic use with X-ray intensifying screens comprising coated on at least one side of a transparent support base at least a spectrally sensitized silver halide emulsion layer and, between the base and a silver halide emulsion layer, a hydrophilic colloid layer containing a) substantially light-insensitive low iodide silver bromoiodide grains having an average grain size in the range of from 0.01 to 0.1 μm on which a spectral sensitizing dye is adsorbed to form a J-band, said dye adsorbed on said grains having a significant portion of its absorption in a region of the electromagnetic spectrum corresponding substantially to the spectral sensitivity of the silver halide emulsion, and b) dispersed zinc oxide particles. The invention allows the use of low coverage weights of silver halide light-sensitive elements and provides X-ray images with a favorable image quality and sensitivity ratio.

IPC 1-7

G03C 1/035; **G03C 1/12**; **G03C 1/28**; **G03C 5/17**

IPC 8 full level

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CPC (source: EP)

G03C 1/035 (2013.01); **G03C 1/18** (2013.01); **G03C 1/28** (2013.01); **G03C 5/17** (2013.01)

Citation (search report)

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- [YD] US 4425426 A 19840110 - ABBOTT THOMAS I [US], et al
- [Y] US 4680252 A 19870714 - SUZUKI AKIO [JP], et al

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EP0506584A1; JPH0593975A; DE202010014711U1; DE202006020712U1; US8535436B2; US8232439B2

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