

Title (en)

Photographic silver halide material for mammography

Title (de)

Photographisches Silberhalogenid-Material für die Mammographie

Title (fr)

Matériau photographique à l'halogénure d'argent pour la mammographie

Publication

EP 1246005 B1 20061025 (EN)

Application

EP 01000090 A 20010329

Priority

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Abstract (en)

[origin: EP1246005A1] A radiographic film material has been described for recording medical diagnostic images of soft tissue through exposure to light, emitted by a single intensifying screen, after having been subjected to exposure with X-rays, emitted from an X-ray generating device with a tube voltage of 20 kV to 40 kV, and processing, including development, fixing and drying, within a time of 120 (and more preferably 90) seconds or less, wherein said film is comprised of a transparent film support, front and back major faces and an image-forming portion for providing, when imagewise exposed by light emitted by said intensifying screen and processed, an average contrast or gradient in the range from 3.0 up to 4.5, measured over a density above fog in the range of from 0.25 to 2.00, and wherein said image-forming portion is comprised of layer units permeable for aqueous processing solutions, said layer units being a hydrophilic front layer unit coated on the said front major face of the support wherein the front layer unit is capable of reaching a maximum density of more than 3.00; a hydrophilic back layer unit coated on the said back major face of the support; wherein sensitivity (speed), measured at a density of 0.50 above fog, is higher for the front layer unit than for the back layer unit in an amount of from 0.70 up to 1.70 log (Exposure); characterized in that both the front layer unit and the back layer unit have one or more light-sensitive silver halide emulsion layer(s) coated with emulsion crystals, essentially having a cubic crystal habit. A process for obtaining a medical diagnostic image of soft tissue has also been disclosed, said process comprising (a) mounting a radiographic film as disclosed, adjacent to a single intensifying screen, (b) exposing the intensifying screen to an image pattern of X-radiation that has passed through the soft tissue to stimulate light emission by the intensifying screen that imagewise exposes the radiographic film, and (c) processing the radiographic film, including development, fixing and drying in less than 120 seconds.

IPC 8 full level

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CPC (source: EP)

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