

Title (en)

Resolution improvement of images recorded using storage phosphors

Title (de)

Verbesserung der Resolution von aufgenommenen Bildern mit Speicherphosphoren

Title (fr)

Amélioration de la résolution d'images enregistrées utilisant des matériaux phosphorescents à mémoire

Publication

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Application

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Priority

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Abstract (en)

A simplified, cost effective optical apparatus for solid state photorecording of optical images with enhanced resolution. The optical apparatus of the invention includes an array of optical apertures (203; 303; 503) and a plurality of portions of a phosphorescent material (209). Each portion is optically coupled to a respective one of the apertures. The apertures are exposed to an optical image (103; 403) so as to record the image in the plurality of portions of the phosphorescent material. A number of the apertures of the invention is large, preferably within a range of approximately one million to seven million apertures. For example in a preferred embodiment the number of the apertures is approximately six million apertures. Preferably, the optical apertures are microscopic optical apertures. For example, each aperture has a respective width dimension within a range of approximately ten to fifty microns. Preferably, the respective width dimension of each aperture is approximately twelve microns. <IMAGE>

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G21K 4/00

IPC 8 full level

G21K 4/00 (2006.01)

CPC (source: EP)

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