

Title (en)

ALIGNMENT METHOD AND APPARATUS FOR RETRIEVING INFORMATION FROM A TWO-DIMENSIONAL DATA ARRAY

Title (de)

VERBIUNDUNGSVERFAHREN UND GERÄT ZUM ZUR WIEDERGEWINNUNG VON INFORMATION VON EINER ZWEIDIMENSIONALEN DATENANORDNUNG

Title (fr)

APPAREIL ET PROCEDE D'ALIGNEMENT POUR L'EXTRACTION D'INFORMATIONS D'UNE MATRICE DE DONNEES EN DEUX DIMENSIONS

Publication

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Application

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Priority

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Abstract (en)

[origin: WO9743730A1] A system is disclosed for retrieving data from an optical image containing two-dimensional data patterns imaged onto a sensor array. Data record is an optical data layer (19) capable of selectively altering light such as by changeable transmissivity, reflectivity, polarization, and/or phase. The sensor array (27) is a layer of charge coupled devices (CCDs) arrayed in a grid pattern generally conforming to the projected data page but preferably the sensor grid is somewhat larger than the imaged data. To compensate for various optical effects, including translational and rotational offsets, magnification and distortion of the data image as it is converted to electrical data by the sensor array, raw image data is sensed on a grid larger than the page image and then electronically processed in an alignment and bit retrieval circuit (30, 32) to determine the true data corrected for displacement, rotation, magnification, and distortion. The processed, corrected data is then output to memory or throughput to applications.

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G06K 7/10

IPC 8 full level

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