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Abstract

DOT CENTER TRACKING IN OPTICAL STORAGE SYSTEMS USING INK DOTS

A method of converting a scanned image comprising scanned pixels to a corresponding bitmap image, said method comprising the steps of, for each bit in the bitmap image;

- a. determining an expected location in said scanned image of a current bit from the location of surrounding bits in said scanned image;
- b. determining a likely value of said bit from the values at the locations of expected corresponding pixels in said scanned image;
- c. determining a centroid measures of the centre of the centre of the expected intensity at the said expected location;
- d. determining similar centroid measures for adjacent pixels surrounding said current bit in said scanned image and;
- e. where said centroid measure is improved relative to said expected location, adjusting said expected location to be an adjacent pixel having an improved centroid measure.

(Figure 45)