

Title (en)

ILLUMINATION ARRANGEMENT FOR ELIMINATION OF GRAY BORDERS IN A COPYING DEVICE

Publication

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Application

EP 81304467 A 19810928

Priority

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- US 24924481 A 19810330

Abstract (en)

[origin: EP0049146A1] In an illumination arrangement which includes a linear light transmitting array (16) the effects of gray borders on an imaging surface (24) are compensated for by locating a light-directing member (26) at at least one end of the linear transmitter entrance. In a first embodiment, reflective elements (26) are placed at the array ends so as to intrude (26a) a slight distance into the optical path. A portion of light from an illumination source (18) is reflected from these elements to eliminate unwanted edge borders on an underlying imaging surface. In a second embodiment, a portion of light from the illumination source is directed by total internal reflection along one of the prism surfaces into one end of the linear transmitter. This light is transmitted through the transmitter and dissipates the gray borders created by edge illumination of the document being copied.

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