

ABSTRACT OF THE DISCLOSURE**INTEGRATED HISTOGRAM AUTO ADAPTIVE CONTRAST CONTROL (ACC)**

The invention provides for calculating the sum of the luminance values of all
5 pixels in each of a number of regions making up the whole image. A histogram is
then created of all the sums of luminance at the end of each frame. The histogram is
then rescaled such that the luminance range is normalized. Once the histogram has
been created, an appropriate transfer function is created using the integrated
luminance histogram for the frame. In this way detail within significant objects in the
10 image are enhanced since the average luminance of objects in an image are weighted
more than then the luminance of individual pixels providing a more realistic transfer
function.

Fig. 6