

COMMUNICATION APPARATUS AND METHOD OF COLOR PICTURES AND
CONTINUALLY-CHANGING TONE PICTURES

ABSTRACT

5 A sending port makes compressed digital data of continually-tone
changing picture or color picture by inputting the continually tone changing
picture or color picture, dividing the original picture into regions having pixels
of similar tones, making an average tone image by drawing the regions with the
average tones, determining boundaries between neighboring regions, extracting
branch points at which more than two boundaries joins, extracting turning
10 points at which the gradient turns discontinuously, approximating
subboundaries having ends of turning points or branch points by piecewise
polynomials, making a subtracting image by subtracting the average tone image
from the original picture, and sending the compressed data; transmitting media
transmits the compressed data from the sending port to a receiving port
15 through telephone lines, exclusive lines or wireless; the receiving port retrieves
the boundaries, the regions, the average tone image, the subtracted image and
the original picture.

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