

IMAGE COMPRESSION

Xerox Corporation

Initial Bidding Guidance: Mid 6 Figures

With early priority dates from September 1997, the disclosed portfolio covers techniques for compressing and decompressing data, including, but not limited to, the following:

- 1. Method for decompressing digital image data (e.g., JPEG files) that improves decompression rates using a variable block size inverse discrete cosine transform on a subset of the original data—e.g., data with a particular arrangement of zero values and location of "end of block" in the compressed serial data—without the data loss associated with high compression rates. [6,778,707]
- 2. Method of compression that digitizes and segments the image into a plurality of different classes—each of which is subsequently compressed individually—and determines and balances both the bit rate and extent of image distortion resulting from each compression in order to optimize image quality. [6,975,742]
- 3. Method and apparatus to control image quality and compression ratios in image segmentation via classifying pixel blocks of an image and determining how each image block should be compressed—e.g., with a lossy or a lossless technique—to achieve improved compression ratios and image quality. [7,218,784]
- 4. Processing compressed image sequences, where an image sequence is a temporal sequence of digitized image frames, with the intention to identify time instants in the image sequence, or regions within an image plane frame, that have particular characteristics, without the requirement to decompress the image sequence. [6,058,210]

Forward Citing Companies: Broadcom, Canon, Cisco, Citrix Systems, E.ON AG, Ericsson, Fujifilm, Hewlett-Packard, IBM, LG Electronics, LSI Corporation, Microsoft, Objectvideo, Pixel Tools Corporation, RealVNC Limited, Ricoh, Schneider Electric SA, Seiko, Sharp, Siecor, STMicroelectronics, The Carlyle Group

Priority Date: 09-15-1997

Representative Claim: US 7,218,784 - Claim #17

An apparatus comprising: means for receiving an image comprised of blocks; means for sequentially analyzing the blocks to determine at least two metrics therefor; means for determining a manner in which each block will be compressed based on the at least two metrics; and, means for compressing each block based on the determining means.

Contact:

For more information on the assets available for sale in this portfolio, contact Paul Greco.

Paul Greco Senior Vice President Paul@icapip.com (212) 815-6692

TECHNOLOGY

DATA COMPRESSION AND DECOMPRESSION (CODECS)

NOVELTY

FAST AND EFFICIENT ELECTRONIC DATA TRANSMISSION

IMPORTANCE

A VALUABLE PORTFOLIO FOR IMAGING, SOFTWARE, AND COMMUNICATION SYSTEMS COMPANIES

NUMBER OF ASSETS

16

PATENTS (13)

US 6,058,210 US 6,778,707 US 6,975,742 US 7,218,784 CA 2327063 DE 60134291.7 EP 1152594 FR 1152594 GB 1152594 JP 3980332 JP 4641650 JP 4680377 MX 237976

APPLICATIONS (3)

BR PI00059161 EP 00127178.2 EP 01127876.9