

US007974339B2

(12) United States Patent

Krichevsky et al.

(10) **Patent No.:**

US 7,974,339 B2

(45) Date of Patent:

Jul. 5, 2011

(54) OPTIMIZED DATA TRANSMISSION SYSTEM AND METHOD

(76) Inventors: Alex Krichevsky, Laguna Beach, CA

(US); Constance Nash, Laguna Beach,

CA (US)

(*) Notice: Subject to any disclaimer, the term of this

patent is extended or adjusted under 35

U.S.C. 154(b) by 1401 days.

- (21) Appl. No.: 10/892,690
- (22) Filed: Jul. 16, 2004
- (65) Prior Publication Data

US 2004/0258150 A1 Dec. 23, 2004

Related U.S. Application Data

- (63) Continuation of application No. PCT/US02/00503, filed on Jan. 16, 2002.
- (51) Int. Cl.

H04N 7/12 (2006.01)

- (52) U.S. Cl. 375/240.01

See application file for complete search history.

(56) References Cited

U.S. PATENT DOCUMENTS

4,776,013	Α	*	10/1988	Kafri et al.	380/54
4,785,349	Α	*	11/1988	Keith et al.	375/240.23

5,778,092	A	7/1998	MacLeod et al.	
5,784,175	A	7/1998	Lee	
5,838,333	A *	11/1998	Matsuo	345/604
5,878,169	A *	3/1999	Miyamoto	382/236
6,014,181	A *	1/2000	Sun	348/699
6,078,307	A *	6/2000	Daly	345/600
6,198,467	B1 *	3/2001	Chiang	345/698
6,326,981	B1 *	12/2001	Mori et al	345/695
6,473,062	B1 *	10/2002	Debiez et al	. 345/63
6,608,632	B2 *	8/2003	Daly et al	345/698
7,050,639	B1 *	5/2006	Barnes et al	382/239
7.551.189	B2 *	6/2009	Hunter	345/698

FOREIGN PATENT DOCUMENTS

EP	0 712 088 A2	5/1996
EP	1 006 715 A2	6/2000
EP	1 006 717 A2	6/2000

OTHER PUBLICATIONS

Supplementary European Search Report, dated Sep. 23, 2005. Strobach, Tree Structured Scene Adaptive Coder, IEEE Transactions on Communications, Apr. 1990, vol. 38, No. 4, pp. 477-486.

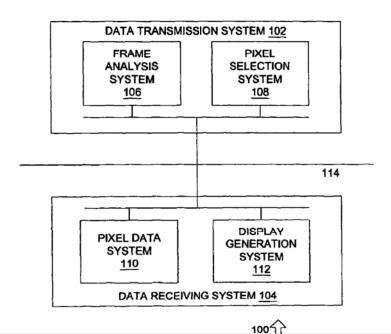
* cited by examiner

Primary Examiner — Tung Vo

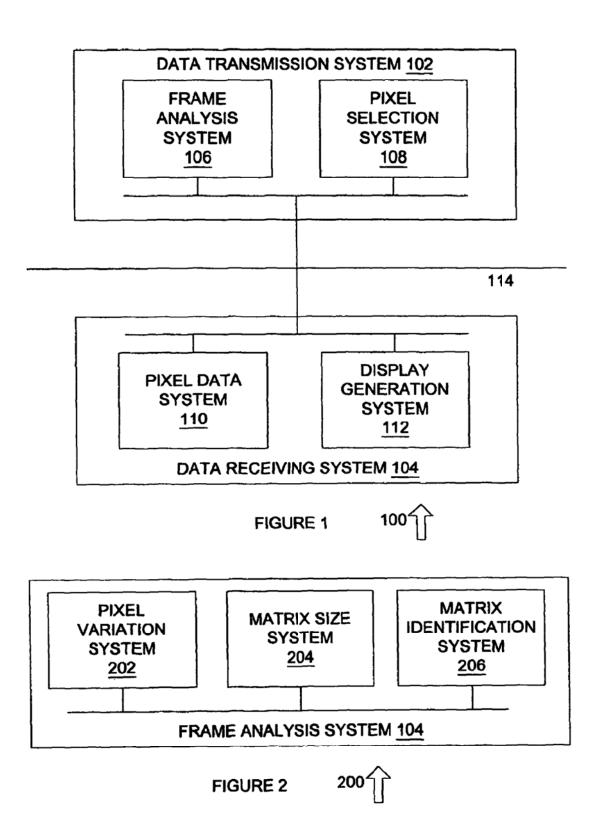
(57) ABSTRACT

A system for transmitting data is provided. The system includes a frame analysis system receiving frame data, such as a frame of video data, and generating region data, such as a uniform matrix size that is used to divide the frame into a predetermined set of matrices. A pixel selection system receives the region data and generates one set of pixel data for each region, such as by selecting one of the pixels contained within each of the original matrices that comprise the frame.

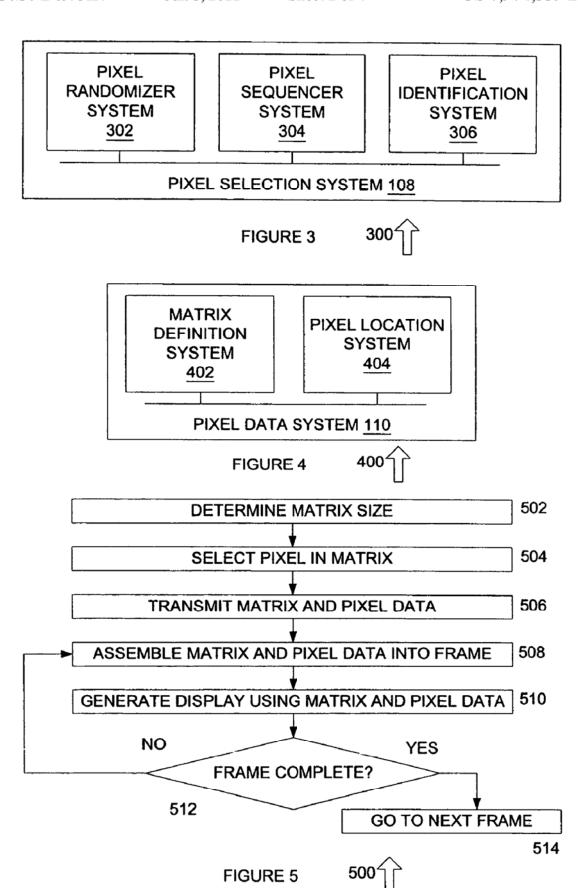
13 Claims, 4 Drawing Sheets

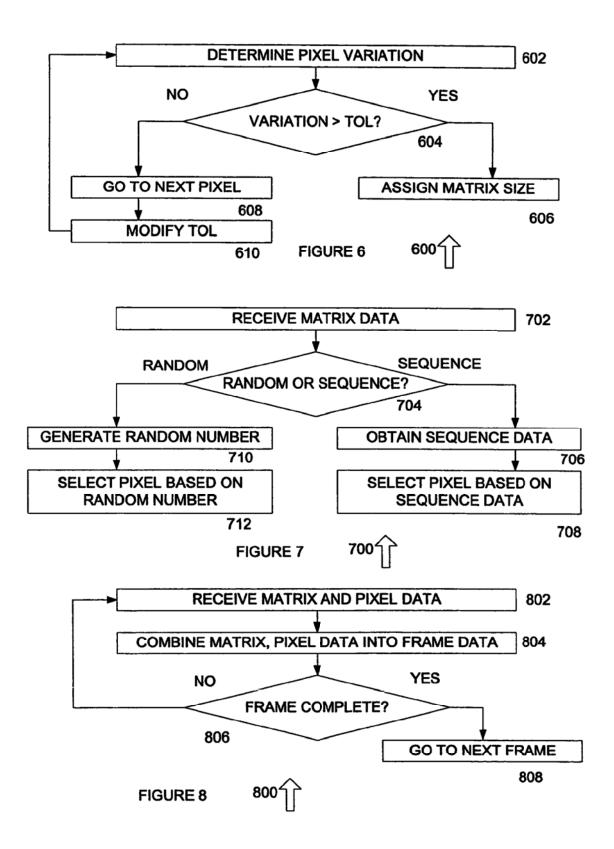






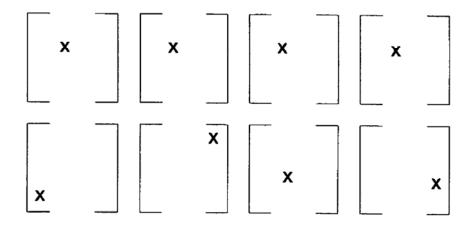


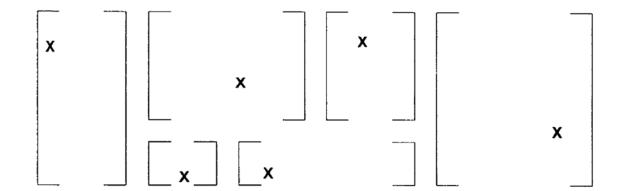






Jul. 5, 2011





DOCKET A L A R M

Explore Litigation Insights



Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time** alerts and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.

