

## United States Patent [19]

### Artieri

**Patent Number:** [11]

5,579,052

Date of Patent: [45]

Nov. 26, 1996

[54]	PICTURI	PROCESSING SYSTEM		
[75]	Inventor:	Alain Artieri, Meylan, France		
[73]	Assignee:	SGS-Thomson Microelectronics S.A., Saint Genis Pouilly, France		
[21]	Appl. No.: 247,996			
[22]	Filed:	May 24, 1994		
[30]	Foreign Application Priority Data			
	27, 1993 29, 1993	FR] France		
[51]	Int. Cl.6	<b>H04N 7/30</b> ; H04N 7/32		
[52]	U.S. Cl			
[58]		earch		

### [56] References Cited

### U.S. PATENT DOCUMENTS

4,800,441	1/1989	Fumitaka Sato 358/261.1
5,253,078	10/1993	Balkanski et al 348/416
5,379,356	1/1995	Purcell et al 382/56

### FOREIGN PATENT DOCUMENTS

6/1987 Germany ...... G06F 15/68

### OTHER PUBLICATIONS

Digital Image Processing Applications, Los Angeles, CA, Jan. 17-20, 1989, 140-147, Yusheng. T. Tsai, "Real-time architecture for error-tolerant color picture compression."IEEE Colloquim on Parallel Architectures for Image Processing Applications, Digest No. 086, London, UK, Apr. 22, 1991, M. N. Chong, et al., "Pipeline Functional Algorithms, Data Partitioning for Adaptive Transform Coding Algorithms.""A One Chip VLSI for Real Time Two-Dimensional Discrete Losine", Circuits & Systems, 1988 IEEE Internal Sypos, Artieri et al, pp. 701-704.

"A Realtime Image Processing Chip Set", Solid State Circuits, 1989 36th Conference, IEEE.

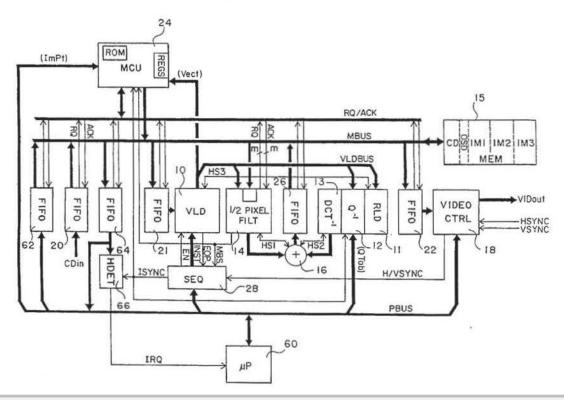
"Designing a High-Throughput VLC Decoder Parts I-II--Parallel Decoding Methods", Lin et al, IEEE Trans. in Circuits & Systems for Video technology, vol. 2, No. 2, Jun. 1992, pp. 187-206.

Primary Examiner-Tommy P. Chin Assistant Examiner-Vu Le Attorney, Agent, or Firm-David M. Driscoll; James H. Morris; Brett N. Dorny

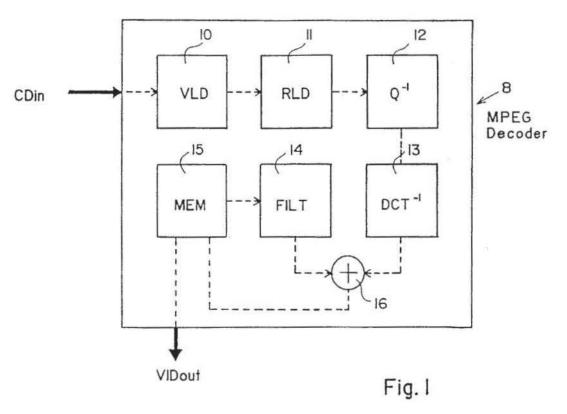
### ABSTRACT

A system that processes compressed data arriving in packets corresponding to picture blocks, the packets being separated by headers containing decoding parameters of the packets. A memory bus is controlled by a memory controller to exchange data between the processing elements and a picture memory. A pipeline circuit contains a plurality of processing elements. A parameter bus provides packets to be processed to the pipeline circuit, as well as the decoding parameters to elements of the system. The parameter bus is controlled by a variable length decoder that receives the compressed data from the memory bus and that extracts the packets and the decoding parameters therefrom.

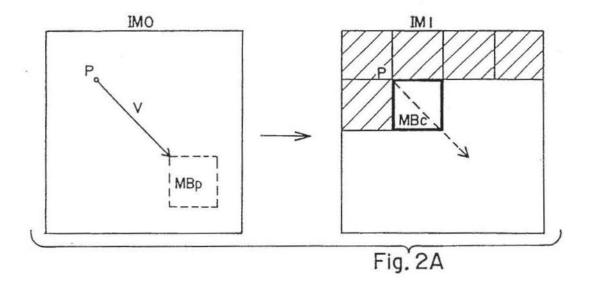
### 13 Claims, 7 Drawing Sheets

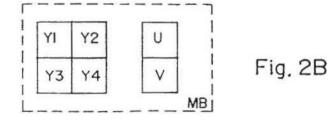




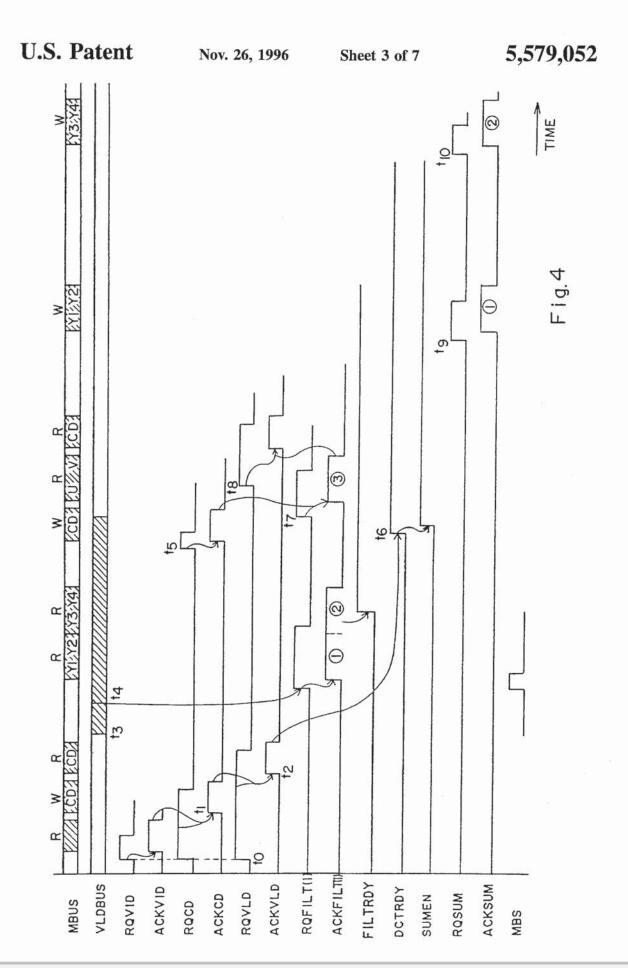


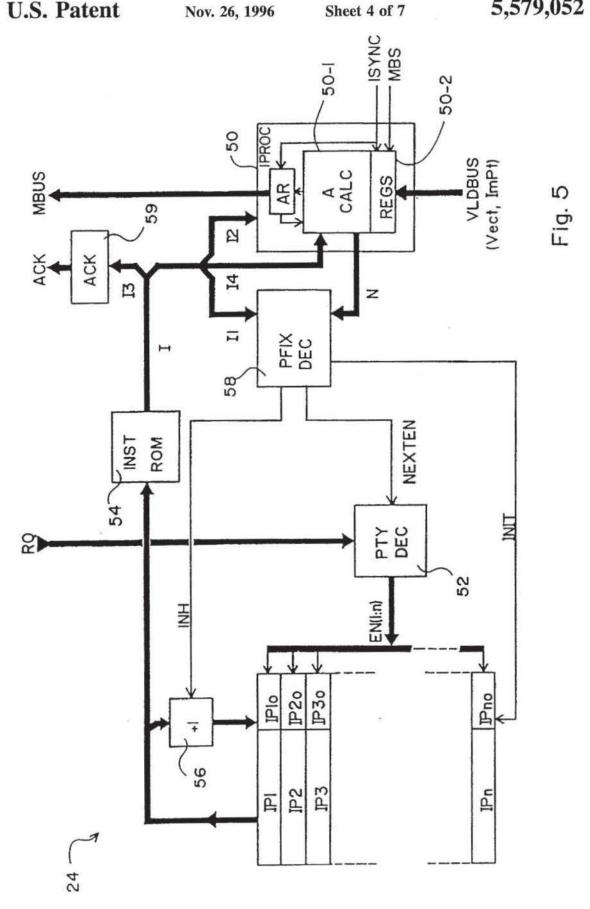
5,579,052











# 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.

