

05/15/98



1542 U.S. PTO

Please type a plus sign (+) inside this box →

Approved for use through 1/31/98 OMB 0651-0037 Patent and Trademark Office U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number



### PROVISIONAL APPLICATION FOR PATENT COVER SHEET

This is a request for filing a PROVISIONAL APPLICATION FOR PATENT under 37 CFR 1.53 (c).

INVENTOR(S)					
Given Name (first and middle [if any])	Family Name or Surname	Residence (City and either State or Foreign Country)			
Robert	CREAMER	Boulder, COLORADO			
Walter	KNAPP	Boulder, COLORADO			
Mark	KOCH	Arvada, COLORADO			
<input checked="" type="checkbox"/> Additional inventors are being named on the <u>1</u> separately numbered sheets attached hereto					
TITLE OF THE INVENTION (280 characters max)					
INTEGRATED INTERNET CAMERA					
CORRESPONDENCE ADDRESS					
Direct all correspondence to.					
<input checked="" type="checkbox"/> Customer Number	7055	Place Customer Number Bar Code Label here			
OR Type Customer Number here					
<input checked="" type="checkbox"/> Firm or Individual Name	GREENBLUM & BERNSTEIN, P.L.C.				
Address	1941 Roland Clarke Place				
Address					
City	Reston	State	VA.	ZIP	20191
Country	USA	Telephone	716-1191	Fax	716-1180
ENCLOSED APPLICATION PARTS (check all that apply)					
<input checked="" type="checkbox"/> Specification Number of Pages	56	<input type="checkbox"/> Small Entity Statement			
<input checked="" type="checkbox"/> Drawing(s) Number of Sheets	15	<input type="checkbox"/> Other (specify) _____			
METHOD OF PAYMENT OF FILING FEES FOR THIS PROVISIONAL APPLICATION FOR PATENT (check one)					
<input checked="" type="checkbox"/> A check or money order is enclosed to cover the filing fees					FILING FEE AMOUNT (\$)
<input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge filing fees or credit any overpayment to Deposit Account Number:	19-0089	\$150.00			
The invention was made by an agency of the United States Government or under a contract with an agency of the United States Government.					
<input checked="" type="checkbox"/> No					
<input type="checkbox"/> Yes, the name of the U.S. Government agency and the Government contract number are _____					

Respectfully submitted,

SIGNATURE

*Bruce H. Bernstein* Reg. No. 33,329

Date

5/15/98

TYPED or PRINTED NAME

Bruce H. Bernstein

REGISTRATION NO (if appropriate)

29,027

TELEPHONE

(703) 716-1191

Docket Number

V16672

### USE ONLY FOR FILING A PROVISIONAL APPLICATION FOR PATENT

Burden Hour Statement This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Box Provisional Application, Assistant Commissioner for Patents, Washington, DC 20231



**PROVISIONAL APPLICATION COVER SHEET**  
*Additional Page*



PTO/SB/16 (12-97)  
 Approved for use through 1/31/98 OMB 0651-0037  
 Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number

Docket Number	V16672	Type a plus sign (+) inside this box →	+
---------------	--------	--	---

INVENTOR(S)/APPLICANT(S)		
Given Name (first and middle [if any])	Family or Surname	Residence (City and either State or Foreign Country)
Yoshiyuki Richard	ARAKI HELTON	Westminster, COLORADO Littleton, COLORADO

Number 2 of 2



TITLE OF THE INVENTION

**INTEGRATED INTERNET CAMERA**

INVENTORS

Rob CREAMER

Walter KNAPP

Mark KOCH

Yoshiyuki ARAKI

Richard HELTON

60066666 1214393

## INTEGRATED INTERNET CAMERA

5 The present provisional application is related to U.S. Provisional Application 60/067,310, filed December 4, 1997, which is expressly incorporated herein by reference in its entirety.

### BACKGROUND OF THE INVENTION

#### 1. Field of the Invention

The present invention relates to a digital camera, and more particularly, a camera capable of transmitting images over the Internet.

#### 2. Description of Background Information

10 As the Internet (i.e., the worldwide inter-network, currently operated under TCP/IP: Transmission Control Protocol/Internet Protocol) gains more participants and becomes more consumer-oriented, the demand for simplified ways of providing access to various media increases. A large portion of the new participants seek access to the "World Wide Web" (i.e., a hypertext-driven global multimedia system, hereinafter the "Web"). Archives of digital images (photographs and motion video) are now ubiquitous. The demand for real-time or live video, whether motion video or still video, has different requirements, but has also become strong. Needs in entertainment, advertising, education, security, traffic monitoring, weather monitoring, child care monitoring, and surveillance, as well as general consumer usage, have  
15 driven the creation of an initial wave of systems able to place a real-time image, or series of images, on the Internet and on the Web.

20 However, the prior systems are complex and expensive, requiring the use of a general purpose personal computer and a host of peripheral devices to place an image on the Internet or Web. The systems are typically large and lack portability.

25 An example of such a prior system is shown in Fig. 1. A video camera 110 connects to a "frame grabber" peripheral card 112, hosted by the parallel bus 114 of a personal

5 computer 122. The frame grabber card 112 decodes a frame of the analog video signal from the video camera 110 into a digital image, and makes the digital image available to purpose-designed software running on the computer 122. Typically, the purpose-designed software eventually compresses the digital image into main memory using the main microprocessor of the personal computer 122. In order to upload the image to the Internet, the computer 122 requires a serial port 118 and attached modem 120, which are hooked to the public telephone system 124. The personal computer 122 uses further software programs running in main memory, which include at least a modem driver, telephone transmission protocol (e.g., TCP/IP) driver, a telephone transmission protocol (e.g., PPP: Point-to-Point Protocol) driver, and an file transfer protocol (e.g., FTP: File Transfer Protocol) application, to connect to the 10 modem 120, through the telephone system 124, and to an ISP (Internet Service Provider) 128. Thereafter, the personal computer 122 may upload the compressed image to a shell account available at the ISP 128.

15 Costs for such a system may run to several thousand dollars. The computer 122 must be on-site, i.e., relatively close to the camera 110, and is large and relatively immobile. Since the system is an assembly of general-purpose components, and the computer 122 is usually dedicated to serving the camera 110, the system is redundant and has excess capabilities. In particular, multiple microprocessors/controllers, power supplies, and communication lines are necessary to operate the separate parts of the system. Moreover, such systems include 20 many opportunities for error because of the many interfaces and communication links between discrete devices. Such error may occur as difficulties in setup and configuration and incompatibility between devices in operation.

### 3. Acronyms

25 The following acronyms and abbreviations are used throughout the specification. For brevity, the definitions are summarized as follows:

xDSL	– (generic) Digital Subscriber Line
ATM	– Asynchronous Transfer Mode

# 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.