



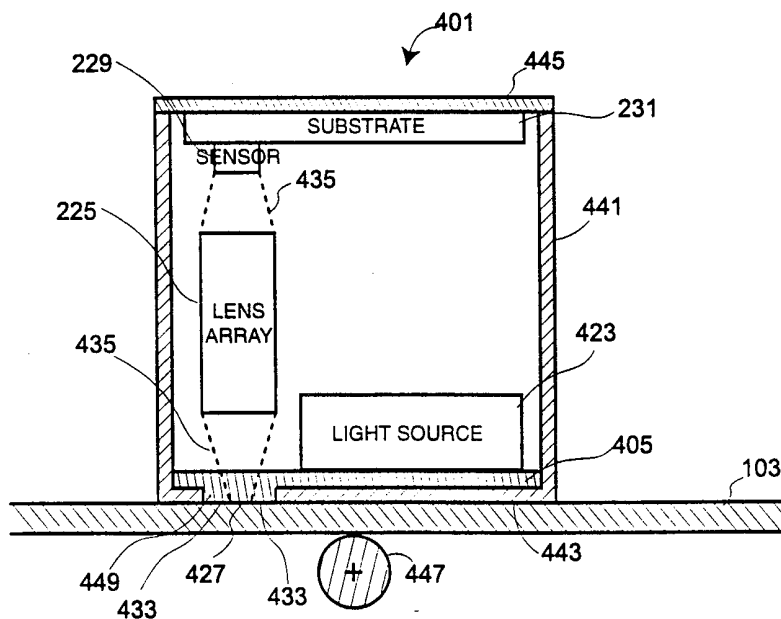
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(21) International Application Number: PCT/US99/15970 (22) International Filing Date: 14 July 1999 (14.07.99) (30) Priority Data: 09/118,693 16 July 1998 (16.07.98) US (71) Applicant: ROBERTSON, Jerome, E. [US/US]; Trustee in Bankruptcy for Storm Technology, Inc., Jerome E. Robertson & Assoc., 129 Fremont Avenue, Los Altos, CA 94022 (US). (72) Inventors: CRAIG, Samuel, F.; 1371 Sprinhill Drive, Pittsburg, CA 94565 (US). YUNG, Benjamin, P.; 1041 West Hill Court, Cupertino, CA 95014 (US). (74) Agents: SLONE, David, N. et al.; Townsend and Townsend and Crew LLP, Two Embarcadero Center, 8th floor, San Francisco, CA 94111 (US).		(81) Designated States: CN, GB, JP, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report.</i> (88) Date of publication of the international search report: 20 April 2000 (20.04.00)

(54) Title: CONTACT IMAGE SENSOR SCANNER FOR PHOTOGRAPH DOCUMENTS

(57) Abstract

An apparatus for scanning a document, including scanning a photograph, the apparatus including a contact image sensor (CIS 401), the apparatus designed to reduce the friction between the contact image sensor (401) and the document (103) being scanned. The reduction is achieved by reducing the friction by use of a non-stick material (661, 771, 881) or by reducing the static electricity forces or both. The preferred embodiment is a CIS whose housing is made of a non-stick material which also is static electricity dissipative.



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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US99/15970

A. CLASSIFICATION OF SUBJECT MATTER

IPC(6) :H04N 1/04, 1/40

US CL :Please See Extra Sheet.

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 358/496, 483, 474, 471, 475, 482, 296; 250/208.1; 355/40, 27; 399/4, 130, 37, 117, 159

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
NONE

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EAST; WEST

Search terms (WEST): (document or original) same stick\$3 same reduc\$ same friction

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 5,475,211 A (OGURA ET AL.) 12 December 1995, col. 7, lines 28-57, Figs. 4 and 5	1, 9-14, 20, 28-33, 39, 42-45, 47, and 48 ----- 46
Y	US 5,317,146 A (ISOBE) 31 May 1994, col. 3, lines 1-32, Figs. 2, 4, 5A and 5B	46

☐ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

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Date of the actual completion of the international search 15 NOVEMBER 1999	Date of mailing of the international search report 20 JAN 2000
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