

Nicolas Vargas

1) Family number: 31952863 (US2004101095A)

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Title: FULL FIELD MAMMOGRAPHY WITH TISSUE EXPOSURE CONTROL, TOMOSYNTHESIS, AND DYNAMIC FIELD OF VIEW PROCESSING

Abstract: Source: US2004101095A [EN] A mammography system using a tissue exposure control relying on estimates of the thickness of the compressed and immobilized breast and of breast density to automatically derive one or more technic factors. The system further uses a tomosynthesis arrangement that maintains the focus of an anti-scatter grid on the x-ray source and also maintains the field of view of the x-ray receptor. Finally, the system finds an outline that forms a reduced field of view that still encompasses the breast in the **image**, and uses for further **processing**, transmission or archival storage the data within said reduced field of view.

Classifications:

International (ipc 8-9): A61B19/00 A61B3/00 A61B5/00 A61B5/05 A61B6/00 A61B6/02 A61B6/03 A61B6/04 A61B6/06 A61B6/10 A61B8/08 G01N23/00 G01N23/04 G01N23/083 G06F3/00 G06F3/0484 G06F3/0485 G06K9/00 G06K9/36 G06K9/62 G06T11/00 G06T11/60 G06T15/00 G06T15/08 G06T19/20 G06T3/00 G06T7/00 G06T7/30 H01J29/02 H05G1/02 H05G1/58 H05G1/60 (Advanced/Invention);

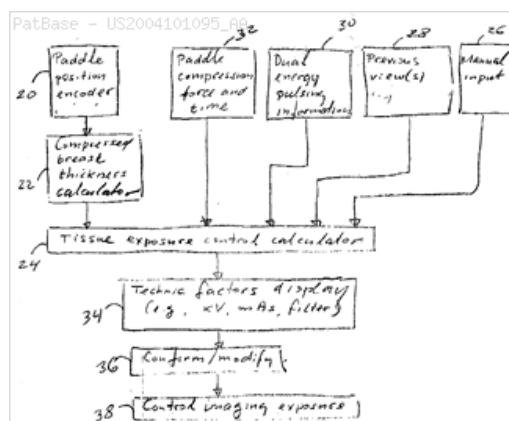
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H05G1/00 (Core/Invention);

A61B6/04 H05G1/00 (Core/Non-invention)

International (ipc 1-7): A61B3/00 A61B5/05 A61B6/00 A61B6/04 **CPC:** G06T15/08 G06T2210/41 A61B6/12 A61B6/481 G06T11/60 A61B6/06 G06T11/008 G06T2200/24 G06T2207/20068 A61B6/0414 A61B6/4291 G06T3/0006 A61B5/0048 A61B5/7232 A61B6/025 A61B6/463 A61B6/465 A61B6/466 A61B6/5235 A61B6/563 G06T11/006 G06T2207/10112 G06T2207/20212 G06T2207/30068 G06F3/04855 G06T19/20 G06T2207/20221 G06T2207/10081 G06T2219/2008 G06T11/003 G06T2207/10016 G06K9/6201 A61B6/464 A61B6/4035 A61B6/482 A61B6/461 G06T2207/30204 G06F3/04847 G06T2207/20108 G06T2207/10116 G06T2207/20104 G06T7/0012 A61B6/4417 A61B6/107 A61B6/405 G01N23/046 A61B8/0825 A61B6/5247 A61B6/542 G06T7/30 G06T19/00 A61B6/502

European: A61B5/00M A61B6/02D A61B6/06 A61B6/46B10 A61B6/46B4 A61B6/46B6 A61B6/46B8 A61B6/48D A61B6/50D A61B6/52D6B A61B6/52D6D A61B6/54D A61B6/56B G06T11/00T3 G06T11/00T5 G06T3/00A G06T7/00B2 G06T7/00D1 K61B6/10D K61B6/40F K61B6/48D S06T200/24 S06T207/10112 S06T207/20068 S06T207/20212 S06T207/30068 **US:** 1/1 345/636 378/114 378/115 378/116 378/189 378/20 378/208 378/21 378/22 378/22P 378/23 378/37 378/37P 378/37S 378/4 378/4S 378/5 378/5P 378/68 378/7 378/7P 378/7S 378/97 378/97S 382/128 382/128P 382/130 382/131 382/131P 382/131S 382/132 382/132P 600/425 600/426 600/426P 600/427 600/427S 600/429 715/786 715/833 715/866 715/866S

**Family:**

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Probable Assignee: HOLOGIC INC

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Inventor(s): (std): DEFREITAS KEN ; FARBIZIO TOM ; GKANATSIOS NIKOLAOS ; JAY STEIN ; JAY A STEIN ; GEORGIA HITZKE ; FARBIZIO THOMAS ; DONALD KENNEDY ; DEFREITAS KENNETH ; CHRIS RUTH ; ANDREW SMITH ; STEIN JAY ; ZHENXUE JING ; WILSON KEVIN ; REN BAOURI ; JING ZHENXUE ; JING ZHENXUE HITZKE GEORGIA KENNEDY DONALD SMITH A ; REN BAORI ; STEIN JAY A ; SMITH ANDREW P ; SMITH ANDREW ; SHAW IAN ; RUTH CHRIS ; REN BAORUI ; KENNEDY DONALD ; JING ZHENXUE ; HOLOGIC INC ; HITZKE GEORGIA ; DEFREITAS KENNETH F ; RUTH CHRISTOPHER ; NIKLASON LOREN ; JING ZHENXUE HITZKE GEORGIA KE ; GKANATSIOS NIKOLAOS A

Inventor(s): JING ZHENXUE HITZKE GEORGIA KENNEDY DONALD SMITH ANDREW STEIN JAY A ; JING ZHENXUE HITZKE GEORGIA KENNEDY DONALD... ; REN BAORUI ANDOVER ; RUTH CHRISTOPHER DANVERS ; SMITH ANDREW LEXINGTON ; SMITH ANDREW P LEXINGTON ; SHAW IAN YORKTOWN HEIGHTS ; SMITH ANDREW MEDFORD ; WILSON KEVIN WALTHAM ; STEIN JAY BOSTON ; STEIN JAY A BOSTON ; GKANATSIOS NIKOLAOS A DANBURY ; HITZKE GEORGIA SAUNDERSTOWN ; JING ZHENXUE SOUTHBURY ; KENNEDY DONALD BETHEL ; NIKLASON LOREN HILLSBOROUGH

Agent(s): MAUCHER BOERJES JENKINS; DUNLOP HUGH CHRISTOPHER; DE BAAT MICHIEL ANTON; BRINCK DAVID JOHN BORCHARDT; HOYNG ROKH MONEGIER LLP; BRINCK DAVID JOHN BORCHARDT ET AL; MURPHY COLM DAMIEN; KAWAMOTO KAZUYA; SHIMIZU HATSUSHI; OSAKABE SUGURU; IVAN S KAVRUKOV ESQ COOPER AND DUNHAM LLP; COOPER AND DUNHAM LLP; CYTYC DARRY PATTINSON SR IP PARALEGAL CORP; LINDSAY MCGUINNESS HOLOGIC INC; COOPER AND DUNHAM; LINDSAY; VISTA IP LAW GROUP LLP; MCGUINNESS LINDSAY

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

2) Family number: 31868114 (US2002186221A)

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Title: INTERACTIVE VIDEO **DISPLAY** SYSTEM

Abstract: Source: US2002186221A [EN] A device allows easy and unencumbered interaction between a person and a computer **display** system using the person's (or another object's) movement and position as input to the computer. In some configurations, the **display** can be projected around the user so that that the person's actions are **displayed** around them. The video camera and projector operate on different wavelengths so that they do not interfere with each other. Uses for such a device include, but are not limited to, interactive lighting effects for people at clubs or events, interactive advertising **displays**, etc. Computer-generated characters and virtual objects can be made to react to the movements of passers-by, generate interactive ambient lighting for social spaces such as restaurants, lobbies and parks, video game systems and create interactive information spaces and art installations. Patterned illumination and brightness and gradient **processing** can be used to improve the ability to detect an object against a background of video **images**.

Classifications:

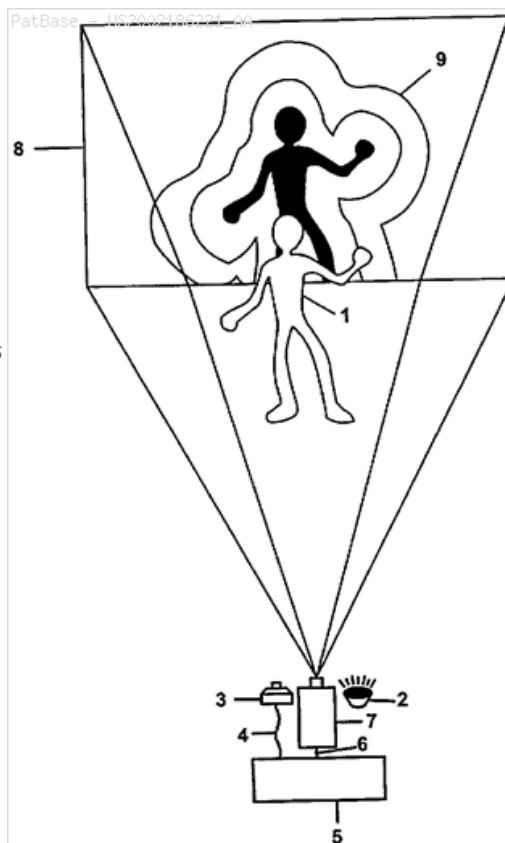
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Family:

Publication number	Publication date	Application number	Application date
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Priority:

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Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

3) Family number: 33612939 (US2003016845A)

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Title: **IMAGE PROCESSING** SYSTEM FOR DYNAMIC SUPPRESSION OF AIRBAGS USING MULTIPLE MODEL LIKELIHOODS TO INFER THREE DIMENSIONAL INFORMATION

Abstract: Source: US2003016845A [EN] The present invention relates in general to systems used to determine whether airbag deployment should be disabled or modified due to the proximity of the occupant to the airbag. In particular, the present invention is an **image processing** system that uses an **image** and signal **process** that utilizes real-time streaming video-**images** from a video camera to determine if the occupant is too close to the air bag, or will be to close the air bag by the time that the airbag deploys. In a crash situation, the system quickly determines whether or not the airbag should be disabled or modified. The **process** uses a multiple-model Kalman filter to infer three-dimensional information from a sequence of two-dimensional **images**. The system predicts the position and shape of the occupant at a faster rate than the rate in which the camera collects data.

Classifications:

[illegible]

CPC: G02B7/003 G02B27/62 B60R21/01552 B60R21/01556
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Priority:

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Inventor(s): (std): AFRIDI KHURAM KHAN ; AFRIDI KHURRAM KHAN ; AHMED USMAN ; ASIF MUHAMMAD ; BALOCH AIJAZ AHMED ; CHEN XUNCHANG ; DELL EVA MARK L ; DELL EVA MARK LOUIS ; FARMER MICHAEL E ; FARMER MICHAEL EDWARD ; RESSLER GALEN E ; SLICKER JAMES M ; ST JOHN CHRISTOPHER N ; USMAN AHMED ; WEN LI ; ZHOU CHUAN ; JAMES M SLICKER ; FAMUR M E ; CHUAN ZHOU ; AIJAZ AHMED BALOCH ; MICHAEL EDWARD FARMER ; MICHAEL E FARMER

Inventor(s): ME FAMUR ; FARMER MICHAEL ; M E FAMUR ; XUNCHANG CHEN ; LI WEN

Agent(s): FB RICE ; FB RICE PTY LTD ; BORDEN LADNER GERVAIS LLP ; RADER FISHMAN AND GRAUER PLLC ; MARTIN J JAQUEZ ESQ JAQUEZ AND ASSOCIATES

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

4) Family number: 30560556 (US2002007510A)

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Title: Smart bathroom fixtures and systems

Abstract: Source: US2002007510A [EN] **Image** sensors, **processors**, and control systems facilitate automatic sensor operated bathroom fixtures, systems for controlling bathroom fixtures, and methods of bathroom fixture design, control, and management, as well as the control and management of hygiene and water resources. The networked plumbing systems also help facility managers and law enforcement personnel monitor the operation of various bathrooms in a facility or at remote facilities. **Image** sensors are used for controlling several showers, faucets, urinals, or water closets in large bathroom complexes. **Image** based intelligent bathroom fixtures and systems help enhance the privacy of users by ensuring that law abiding users need not be disturbed by police foot patrols into the restroom areas, or by security guards entering simply to make inspections. An aquionics bathroom control system of the invention maintains the cleanliness, safety, security, and privacy of the occupants in a smart bathroom environment. Additionally, in some embodiments, a bathroom facility of the invention may be used for mass decontamination during times of emergency for **processing** victims of a nuclear, biological, or chemical incident. Once ubiquitously installed for routine control of fixtures, the apparatus facilitates a secondary usage such as monitoring by triage staff, medical personnel, decontamination officers, or law enforcement officers during times of terrorist consequence management.

Classifications:

International (IPC 8-9): A45C1/06 A45C13/18 A47K3/28 A61B5/00 A61F2/14 A61H33/00 A63F13/80 A63F9/00 A63F9/24 A63H30/04 B62D1/00 B64F1/36 E03C1/05 E03D3/00 E03D5/10 E03D9/00 E04H1/12 E05B47/00 E05B65/00 G02B23/12 G02B27/00 G02B27/01 G02B27/18 G02B27/20 G02C1/00 G02C11/00 G02C11/04 G02C11/06 G02C7/02 G02C7/04 G02C7/10 G02C9/00 G02F1/01 G03B1/00 G03B13/02 G03B13/04 G03B13/06 G03B13/16 G03B15/02 G03B15/05 G03B15/08 G03B17/18 G03B17/48 G03B17/56 G03B19/00 G03B29/00 G03B33/08 G03B43/00 G03B7/00 G04G21/04 G04G9/00 G04G99/00 G05B11/16 G05B19/00 G05B23/00 G05B23/02 G05D1/00 G05D7/06 G06F1/16 G06F17/00 G06F19/00 G06F3/00 G06F3/01 G06F3/02 G06F7/00 G06F7/04 G06K19/00 G06K9/00 G06K9/20 G06K9/36 G06T1/00 G06T5/50 G06T7/00 G07C9/00 G07F7/02 G07F7/12 G07G1/00 G07G1/12 G08B13/00 G08B13/196 G08B15/00 G08B19/00 G08B21/00 G08B21/02 G08B21/08 G08B23/00 G08B25/00 G08B29/00 G08C19/00 G09G3/00 G09G3/32 G09G5/00 G21F9/00 H04B1/00 H04B3/00 H04L9/14 H04L9/28 H04L9/32 H04N5/00 H04N5/222 H04N5/225 H04N5/232 H04N5/243 H04N5/247 H04N5/30 H04N5/335 H04N5/77 H04N7/00 H04N7/14 H04N7/15 H04N7/18 H04N9/12 H04Q1/00 H04Q9/00 H04R1/40 H04R25/00 (Advanced/Invention); A63H30/04 G02B27/00 G06T1/00 H04N5/92 H04N7/15 (Advanced/Non-invention); A45C1/00 A45C13/00 A47K3/28 A61B5/00 A61F2/14 A63F9/00 A63H30/00 B62D1/00 B64F1/00 E03D3/00 E03D5/00 E03D9/00 E04H1/12 E05B47/00 E05B65/00 G02B27/00 G02B27/01 G02B27/18 G02B27/20 G02C1/00 G02C11/00 G02C7/00 G02C7/02 G02C7/04 G02C9/00 G02F1/01 G03B1/00 G03B13/02 G03B13/04 G03B13/06 G03B13/16 G03B15/02 G03B15/05 G03B15/08 G03B17/48 G03B17/56 G03B19/00 G03B29/00 G03B33/00 G04G1/00 G04G9/00 G05B11/01 G05B19/00 G05B23/00 G05B23/02 G05D1/00 G05D7/06 G06F1/16 G06F19/00 G06F3/00 G06F3/01 G06F7/00 G06F7/02 G06K19/00 G06K9/00 G06K9/20 G06K9/36 G06T1/00 G06T5/50 G06T7/00 G07C9/00 G07F7/00 G07G1/00 G07G1/12 G08B13/00 G08B19/00 G08B21/00 G08B23/00 G08B25/00 G08B29/00 G08C19/00 G09G3/00 G09G3/32 G09G5/00 G21F9/00 H04B1/00 H04B3/00 H04L9/14 H04L9/28 H04L9/32 H04N5/00 H04N5/222 H04N5/225 H04N5/232 H04N5/243 H04N5/247 H04N5/30 H04N5/77 H04N7/00 H04N7/15 H04N7/18 H04N9/12 H04Q1/00 H04Q9/00 H04R1/40 H04R25/00 (Core/Invention); A63H30/00 (Core/Non-invention)

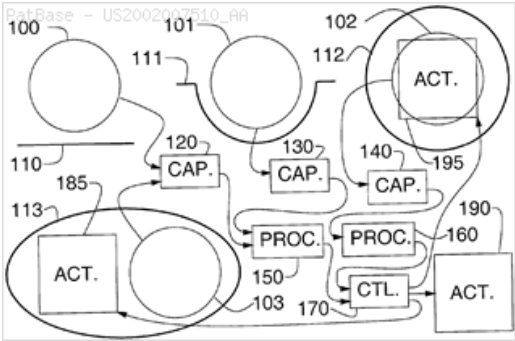
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Locarno class: 00/43



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Inventor(s): (std): W STEPHEN G MANN ; MANN WILLIAM STEPHEN GEORGE ; MANN W STEVE G ; MANN W STEPHEN G ; MANN STEVE G ; MANN STEVE

Inventor(s): WILLIAM STEPHEN GEORGE MANN ; MANN W

Agent(s): SMART AND BIGGAR; NA

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG UZ VN YU ZW

5) Family number: 34858992 (US2007161907A) © PatBase

Title: MICRO VEIN ENHANCER

Abstract: Source: US2007161907A [EN] The present invention is a Miniature Vein Enhancer that includes a Miniature Projection Head. The Miniature Projection Head may be operated in one of three modes, AFM, DBM, and RTM. The Miniature Projection Head of the present invention projects an **image** of the veins of a patient, which aids the practitioner in pinpointing a vein for an intravenous drip, blood test, and the like. The Miniature projection head may have a cavity for a power source or it may have a power source located in a body portion of the Miniature Vein Enhancer. The Miniature Vein Enhancer may be attached to one of several improved needle protectors, or the Miniature Vein Enhancer may be attached to a body similar to a flashlight for hand held use. The Miniature Vein Enhancer of the present invention may also be attached to a magnifying glass, a flat **panel display**, and the like.

Classifications:

International (IPC 8-9): A61B1/07 A61B17/34 A61B18/20 A61B5/00 A61B5/02 A61B5/024 A61B5/05 A61B5/107 A61B5/117 A61B5/1171 A61B5/1172 A61B5/15 A61B5/153 A61B6/00 A61B6/08 A61B90/98 A61M5/168 A61M5/42 A61M5/46 A61N5/06 E05C1/12 E05C3/00 E05C3/02 G02B26/08 G06F1/28 G06T5/00 H01S3/00 H04N5/33 H04N9/31 (Advanced/Invention); A61B19/00 A61B5/024 A61B5/15 A61B90/00 A61M5/168 A61M5/42 (Advanced/Non-invention); A61B5/00 A61B5/05 A61B5/107 A61B6/00 A61M5/42 A61N5/06 E05C3/00 (Core/Invention); A61B5/15 A61M5/168 (Core/Non-invention)

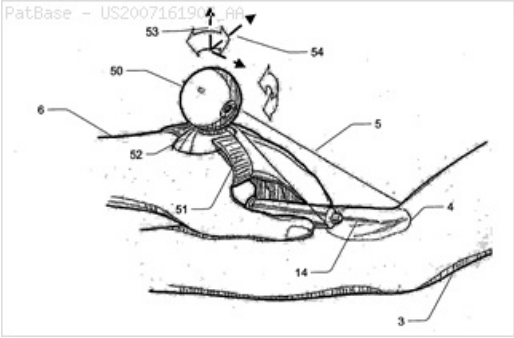
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Priority:

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Probable Assignee: ACCUVEIN INC

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Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

6) Family number: 23234856 (US2005074140A)

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Title: SENSOR AND IMAGING SYSTEM

Abstract: Source: US2005074140A [EN] A system is disclosed having a camera, a **processor**, and a user interface. The camera transmits **image** data responsive to a scene within a field of view. In response to the **image** data, the **processor** indicates whether a condition has been satisfied. The user interface is operably connected to the **processor** and allows a user to select criteria for detection of objects, for indicating criteria selected, and for providing visual confirmation that an object has been detected.

Classifications:

International (IPC 8-9): B25J19/04 B25J9/16 E05B47/00 G01B11/00 G01N21/84 G01N22/00 G01N29/00 G01P13/00 G03B17/02 G03B17/55 G06K9/00 G06T5/00 G06T7/00 G06T7/13 G08B13/196 H04N H04N5/00 H04N5/225 H04N5/243 H04N5/355 H04N5/367 H04N5/369 H04N7/18 H05B3/84 (Advanced/Invention); A61B3/14 (Advanced/Non-invention)

International (IPC 1-7): G06K9/00 G06T7/00 G06T7/20 H04N5/00 H04N7/18

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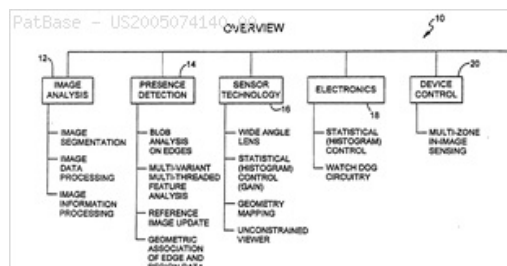
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European: G06T5/00 G06T7/00 G06T7/00S2 G06T7/20C G08B13/196A1 G08B13/196C1 G08B13/196C6 G08B13/196L2 G08B13/196U1 S06T200/24 S06T207/10016 S06T207/20092 S06T207/30108 S06T207/30232

US: 351/210 382/103 382/103P 382/181 382/181S

Family:

Publication number	Publication date	Application number	Application date
AU2001290608 AA	20020313	AU20010290608	20010831
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Priority:

US20000229613P 20000831 US20010363149 20010831 US20030363149 20030915
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Probable Assignee: RYTEC CORP

Assignee(s): (std): GRASSO DONALD P ; JOHNSON STEVE ; RYTEC CORP ; SONN JOHN

Inventor(s): (std): JOHN SONN ; STEVE JOHNSON ; SONN JOHN ; JOHNSON STEVE ; GRASSO DONALD P ; DONALD GRASSO

Inventor(s): GRASSO DONALD ; DONALD P GRASSO

Agent(s): OGILVY RENAULT LLP SENCRL SRL; NORTON ROSE FULBRIGHT CANADA LLP SENCRL SRL; MICHEAL D LAKE WALLENSTEIN AND WAGNER; FACTOR AND LAKE LTD

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

7) Family number: 32454285 (US2006097991A)

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Title: MULTIPOINT TOUCHSCREEN

Abstract: Source: US2006097991A [EN] A touch **panel** having a transparent capacitive sensing medium configured to detect multiple touches or near touches that occur at the same time and at distinct locations in the plane of the touch **panel** and to produce distinct signals representative of the location of the touches on the plane of the touch **panel** for each of the multiple touches is disclosed.

Classifications:

International (IPC 8-9): G06F3/033 G06F3/041 G06F3/044

G06F3/045 G06F3/048 G06F3/0488 G09G5/00

H03K17/955 (Advanced/Invention);

G06F3/041 G06T7/00 (Advanced/Non-invention);

G06F (Subclass/Invention)

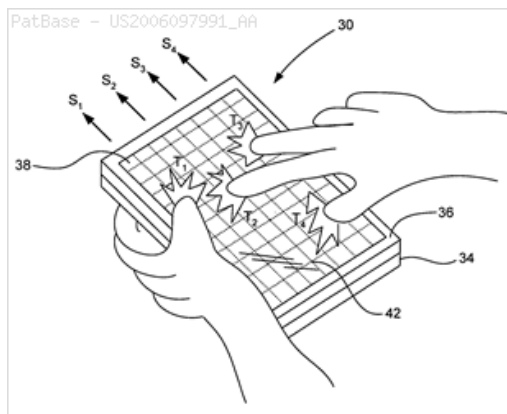
International (IPC 1-7): G06F3/033

CPC: G06F2203/04104 G06F3/0412 G02F1/13338 G06F2203/04101

G06F2203/04105 G06F3/0416 G06F3/044 G06F3/0414

European: G06F3/041T G06F3/044 S06F203/04104

US: 178/18.01 345/173 345/173P 345/174 345/174P



Family:

Publication number	Publication date	Application number	Application date
AU2005246219 AA	20051201	AU20050246219	20050426
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CA2807349 AA	20051201	CA20052807349	20050426
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EP2345953 A2	20110720	EP20100178558	20050426
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Priority:

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Probable Assignee: APPLE INC

Assignee(s): (std): APPLE COMPUTER ; APPLE COMPUTER INC ; APPLE INC ; HOTELLING STEVE ; HOTELLING STEVEN PORTER ; STRICKON JOSHUA A ; HUPPI BRIAN Q ; STRICKON JOSHUA

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Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

8) Family number: 31144536 (US2003043165A)

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Title: COLOR **DISPLAY** DEVICE

Abstract: Source: US2003043165A [EN] A color **display** device includes a shutter type color **display** and signal **processing** means. The signal **processing** means has color conversion **processing** means for increasing a gradation level of a color signal having the highest gradation level while decreasing a gradation level of a color signal having the lowest gradation level when the gradation levels of the plural color signals are not equal one another, and for outputting a color signal has been **processed** to the shutter type color **display**. Further, a color **display** having a reflective member or a diffuse transmission member provided on a **display** screen or in the vicinity of the **display** screen, a color plasma **display**, or a color field emission **display** can also be used instead of the shutter type color **display**. Thus, even when chroma of the color **display** is low, a **display** in high chroma can be ensured.

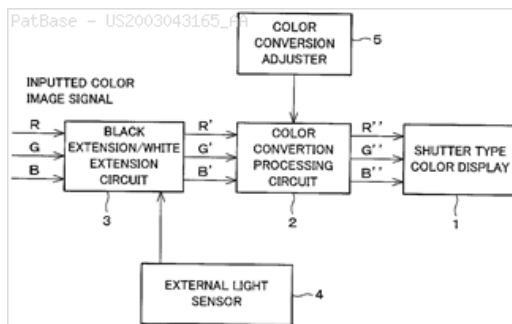
Classifications:

International (IPC 8-9): H04N9/64 G02F1/133 G06F3/14 G06T1/00 G06T5/00 G09F9/00 G09G3/20 G09G3/22 G09G3/28 G09G3/34 G09G3/36 G09G5/02 G09G5/10 H04N1/46 H04N1/60 H04N9/31 H04N9/68 (Advanced/Invention); G09G3/34 G09G3/36 G09G5/02 H04N9/64 (Advanced/Non-invention); G06T1/00 G06T5/00 G09G3/20 G09G3/22 G09G3/28 G09G3/36 G09G5/02 G09G5/10 H04N1/46 H04N1/60 H04N9/31 H04N9/64 (Core/Invention); G09G3/34 G09G5/02 (Core/Non-invention)

International (IPC 1-7): G06T1/00 G06T5/00 G09G3/20 G09G3/22 G09G3/28 G09G3/34 G09G3/36 G09G5/02 H04N1/46 H04N1/60 H04N9/31 H04N9/64

CPC: G09G3/3406 G09G3/3607 G09G2300/0456 G09G2320/0242

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US: 345/589 345/589P 345/690 345/72 345/77 345/83 345/88
345/88P 348/E09.027 348/E9.027 348/E90.27 348/E90.27S



Family:

Publication number	Publication date	Application number	Application date
CN100492457 C	20090527	CN200410035049	20040419
CN1230793 C	20051207	CN20021022049	20020530
CN1388499 A	20030101	CN20021022049	20020530
CN1601584 A	20050330	CN200410035049	20040419
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TW591954 B	20040611	TW20020110878	20020523
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Priority:

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Agent(s): BROWN KENNETH RICHARD ET AL; HARA KENZO; HARAKENZO WORLD PATENT AND TRADEMARK; HARNESS DICKEY AND PIERCE PLC

Designated states: AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IT LI LT LU LV MC MK NL PL PT RO SE SI SK TR

9) Family number: 48783676 (US2014176565A)

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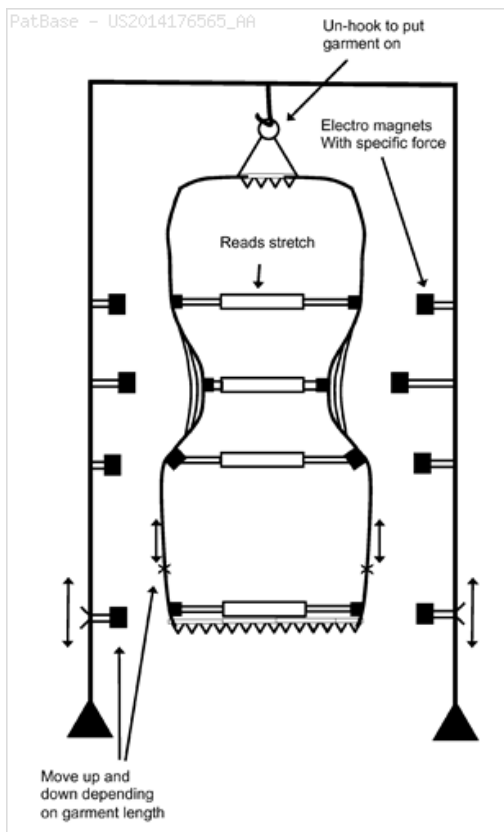
Title: COMPUTER IMPLEMENTED METHODS AND SYSTEMS FOR GENERATING VIRTUAL BODY MODELS FOR GARMENT FIT VISUALISATION

Abstract: Source: US2014176565A [EN] Methods for generating and sharing a virtual body model of a person, created with a small number of measurements and a single photograph, combined with one or more **images** of garments. The model represents a realistic representation of the users body and is used for visualizing photo-realistic fit visualizations of garments, hairstyles, etc. The virtual garments are created from layers based on photographs of real garment from multiple angles. The virtual body model is used in multiple embodiments of manual and automatic garment, make-up, and, hairstyle recommendations, such as, from channels, friends, and fashion entities, and sharable for visualization and comments on looks, for enabling users to buy garments that fit other users, suitable for gifts or similar, and can be used in peer-to-peer online sales where garments can be bought with the knowledge that the seller has a similar body shape and size as the user.

Classifications:

International (IPC 8-9): G06F17/30 G06F3/00 G06F3/0481
G06F3/0482 G06F3/0484 G06F3/0488 G06K9/62 G06Q10/08
G06Q30/06 G06Q50/00 G06T11/00 G06T13/20 G06T13/40
G06T13/80 G06T15/00 G06T15/20 G06T17/00 G06T17/20
G06T19/00 G06T19/20 G06T7/00 G06T7/11 G06T7/194 H04N13/02
H04N5/33 (Advanced/Invention)
CPC: G06T13/40 G06T19/20 G06T2210/16 G06T2219/024
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G06F3/04845 G06F3/04815 G06F3/04842 G06F3/005 G06F3/04883
H04N13/0207 H04N13/0282 H04N13/0271 H04N5/33
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European: G06T19/00R
US: 345/419 345/473 348/46 705/26.25 705/26.62 705/26.64
705/27.2



Family:

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US2016284018 AA	20160929	US20160166893	20160527
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Priority:

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US20160166808 20160527

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Assignee(s): METAIL LIMITED

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Inventor(s): SARAH WALTER ; YU CHEN ; SHRIVIDYA RAVI ; THOMAS ATHORNE ; TOM ADEYOOLA ; TOM BARNES ; TOM BOUCHER ; TOM DALZIEL ; TOM WARREN ; RAY MILLER ; REBECCA ALLARD ; RICHARD BAGNALL ; ROB MURPHY ; ROBERT BOLAND ; NIC MARKS ; NICK BROWN ; NICK DAY ; NIKKI TROTT ; MICHAEL MAHER ; MAIRI MCCALLUM ; DONGJOE SHIN ; JIM DOWNING ; JOE TOWNSEND ; ALVERO BAHAMONDES ; ANOOP UNADKAT ; ANTON WADE ; DUNCAN ROBERTSON ; EDWARD CLAY ; EDWARD HERBERT ; FLEUR HOSKEN ; GALA MARCO ; GARETH ROGERS ; GIORGOS DOGANIS ; DIANA NIKOLOVA

Agent(s): LANGLEY PETER JAMES; SAUL EWING LLP; SAUL EWING ARNSTEIN AND LEHR LLP; ORIGIN LIMITED

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

10) Family number: 30089114 (US2002021287A)

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Title: QUASI-THREE-DIMENSIONAL METHOD AND APPARATUS TO DETECT AND LOCALIZE INTERACTION OF USER-OBJECT AND VIRTUAL TRANSFER DEVICE

Abstract: Source: US2002021287A [EN] A system used with a virtual device inputs or transfers information to a companion device, and includes two optical systems OS1, OS2. In a structured-light embodiment, OS1 emits a fan beam plane of optical energy parallel to and above the virtual device. When a user-object penetrates the beam plane of interest, OS2 registers the event. Triangulation methods can locate the virtual contact, and transfer user-intended information to the companion system. In a non-structured active light embodiment, OS1 is preferably a digital camera whose field of view defines the plane of interest, which is illuminated by an active source of optical energy. Preferably the active source, OS1, and OS2 operate synchronously to reduce effects of ambient light. A non-structured passive light embodiment is similar except the source of optical energy is ambient light. A **subtraction** technique preferably enhances the signal/noise ratio. The companion device may in fact house the present invention.

Classifications:

International (ipc 8-9): G01B11/00 G01B11/24 G01C3/06 G01C3/08 G01P3/36 G01S17/10 G01S17/46 G01S17/89 G01S5/02 G01S5/18 G01S5/22 G01S7/20 G01S7/48 G01S7/486 G01S7/487 G01S7/497 G06F1/16 G06F3/00 G06F3/01 G06F3/02 G06F3/023 G06F3/03 G06F3/033 G06F3/038 G06F3/041 G06F3/042 G06F3/043 G06F3/048 G06F3/0488 G06T7/00 G09G5/00 H01L27/14 H01L27/146 H04N3/15 H04N5/335 H04N5/363 H04N5/374 H04N7/26 H04N9/07 (Advanced/Invention); G01B11/00 G01B11/24 G01C3/06 G01C3/08 G01P3/36 G01S17/06 G01S19/09 G01S3/808 G01S7/48 G06F3/02 H01L27/146 H04N3/15 H04N5/335 (Advanced/Non-invention); G06F1/16 G06F3/00 G06F3/02 G06F3/03 G06F3/033 G06F3/041 G09G5/00 H01L27/14 (Core/Invention); G06F (Subclass/Invention)

International (ipc 1-7): G01B11/00 G01B11/14 G01B11/22 G01B11/24 G01B11/26 G01C3/06 G01C3/08 G01P3/36 G01S17/10 G01S3/80 G01S7/48 G02B5/18 G03H1/00 G06F1/16 G06F3/00 G06F3/02 G06F3/023 G06F3/03 G06F3/033 G06K9/00 G06K9/32 G06K9/36 G06K91/00 G09G5/00 G09G5/08 H01L27/146 H04L H04N5/335

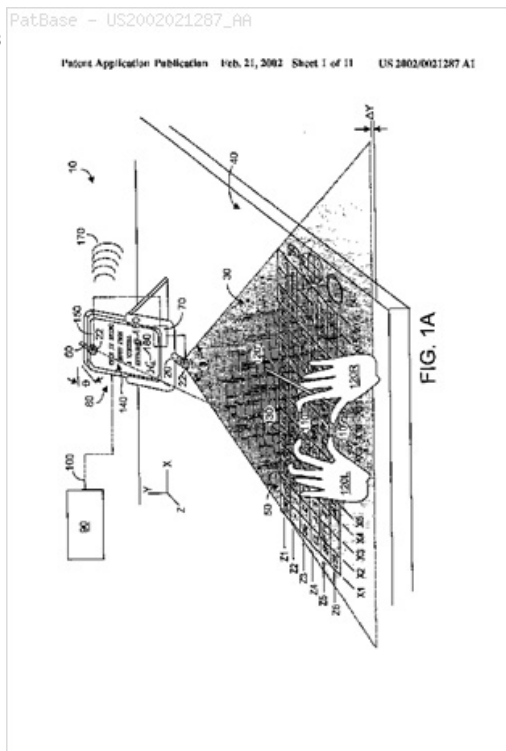
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European: G01C3/08 G01S17/10 G01S17/10C G01S17/46 G01S17/89 G01S5/02 G01S5/18 G01S5/22 G01S7/486 G01S7/487 G01S7/497 G06F1/16P G06F1/16P1 G06F1/16P3 G06F1/16P6 G06F1/16P9E2 G06F1/16P9K12 G06F1/16P9P6 G06F1/16P9P9 G06F3/00B8 G06F3/00B8G G06F3/01B G06F3/01G G06F3/02A6 G06F3/033D G06F3/033D2T G06F3/033Z2 G06F3/033Z2B4 G06F3/033Z4A G06F3/033Z4A2 G06F3/033Z4A4 G06F3/038 G06F3/03H G06F3/042B G06F3/042B4 G06F3/042C1 G06F3/042P G06F3/043 G06F3/043G G06F3/043R G06F3/0488T G06K9/00G2 G06K9/22H1 G06T7/00D G06T7/00P G06T7/00P1M G08B13/196W H04N3/15E S01S17/06 S01S17/89 S01S3/808B S01S7/48A S06F200/1633

US: 345/156 345/156P 345/158 345/168 345/168P 345/169 345/173 345/173P 345/173S 345/700 348/E03.018 348/E3.018 348/E30.18 348/E30.18S 356/141.1 356/5.01 356/5.04 356/5.08 356/614 356/614P 356/627 356/627P 359/558 359/558S 359/568 359/568P 367/118 367/118P 367/124 367/127 367/907 382/106 382/106P 382/154 382/166 382/166S 382/280 382/280S 382/293 715/700 715/700P

Family:

Publication number	Publication date	Application number	Application date
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WO02082249 A2	20021017	WO2002US10661	20020403
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WO0221502 A1	20020314	WO2001US28094	20010907
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WO0229711 A3	20020613	WO2001US31163	20011003
WO03001722 A2	20030103	WO2002US20248	20020624
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WO03046706 A1	20030605	WO2002US33036	20021014
WO03050795 A1	20030619	WO2002US38975	20021206
WO03071411 A1	20030828	WO2003US04530	20030214
WO03100593 A1	20031204	WO2002US29812	20020918

Priority:

EP20010970695	20010907	US19990132064P	19990430	US19990163445P	19991104
US19990157659P	19991005	US19990401059	19990922	US20000231184P	20000907
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WO2001US45070 20011128 WO2002US10661 20020403 WO2001US28094 20030307

Probable Assignee: HEILONGJIANG GOLDEN JUMPING GROUP CO LTD

Assignee(s): (std): SURUCU FAHRI ; SPARE JAMES D ; SHIVJI SHIRAZ M ; RAFII ABBAS ; BAMJI CYRUS ; CANESTA INC ; CELLUON INC ; ZHAO PEIQIAN ; TORUNOGLU ILHAMI HASAN ; VAN METER MICHAEL A ; TOMASI CARLO

Assignee(s): TORUNOGLU ILHAMI ; DESAI APURVA ; GOKTURK SALIH BURAK ; SZE CHENG FENG ; PRAKASH GAGAN ; HEILONGJIANG GOLDEN JUMPING GROUP CO LTD ; MICROSOFT CORP ; MICROSOFT TECHNOLOGY LICENSING LLC

Inventor(s): (std): ZHAO PEIQIAN ; VAN METER MICHAEL A ; TORUNOGLU ILHAMI HASAN ; TORUNOGLU ILHAMI ; TORUNOGLU ILHAMI ; TOMASI CARLO ; SZE CHENG FENG ; SPARE JAMES D ; SHIVJI SHIRAZ M ; SHIVJI SHIRAZ ; SHIRAZ M SHIVJI ; RAFII ABBAS ; PRAKASH GAGAN ; METER MICHAEL A VAN ; KAREEMI ABBAS RAFII CYRUS BAMJ ; MICHAEL A VAN METER ; KAREEMI NAZIM ; JAMES D SPARE ; ILHAMI HASAN TORUNOGLU ; GOKTURK SALIH BURAK ; DESAI APURVA ; CYRUS BAMJI ; CHARBON EDOARDO ; CARLO TOMASI ; BAMJI CYRUS ; TOMASI CARLOS ; SURUCU FAHRI ; GOKTURK SALIH ; SUE RUECUE FAHRI ; ABBAS TOMASI CARLO RAFII

Inventor(s): SALIH GOKTURK ; CARLOS TOMASI ; TOMASI CARLO RAFII ABBAS ; SHIRAZ SHIVJI ; PEIQIAN ZHAO ; APURVA DESAI ; ABBAS RAFII ; CHENG FENG SZE ; GAGAN PRAKASH ; ILHAMI TORUNOGLU ; ABBAS RAFII CYRUS BAMJI NAZIM KAREEMI ; FAHRI SURUCU ; NAZIM KAREEMI

Agent(s): FROST ALEX JOHN ; UESUGI HIROSHI ; OHTSUKA FUMIAKI ; SUDA HIROYUKI ; KUMAKURA YOSHIO ; NISHIJIMA TAKAKI ; DORSEY AND WHITNEY LLP INTELLECTUAL PROPERTY DEPARTMENT ; SHEMWELL MAHAMED I LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EF FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SC SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW

11) Family number: 30397729 (US2002136540A)

Title: DIGITAL VIDEO SYSTEM AND METHODS FOR PROVIDING SAME

Abstract: Source: US2002136540A [EN] A digital **image** enhancer includes a deinterlacing **processor** receptive to an interlaced video stream. The deinterlacing **processor** includes a first deinterlacer and a second deinterlacer and provides a deinterlaced video stream. The digital **image** enhancer also includes a video output **processor** receptive to the output of the deinterlaced video stream to provide a scaled, deinterlaced video stream. A portable DVD player including the digital video enhancer has a generally thin prismatic enclosure having a first major surface, a second major surface separated from said first major surface, and side surfaces connecting the first major surface to the second major surface. At least a portion of the first major surface includes a video **display**, and the enclosure includes a DVD entry port such that a DVD can be inserted into the enclosure.

Classifications:

International (IPC 8-9): B60R11/02 G06F1/16 G06F15/00 G06K9/36 G06K9/40 G06T3/40 G06T5/00 G09G5/39 G09G5/393 G11B33/02 G11B33/10 H04N11/20 H04N5/00 H04N5/14 H04N5/21 H04N5/44 H04N5/64 H04N5/66 H04N5/775 H04N5/85 H04N5/93 H04N7/00 H04N7/01 H04N7/26 H04N9/804 (Advanced/Invention); B60R11/00 G06F1/16 G09G5/39 G09G5/393 H04N5/14 H04N5/44 H04N5/64 H04N5/66 H04N5/85 (Advanced/Non-invention); B60R11/02 G06F1/16 G06T3/40 G06T5/00 G11B33/00 G11B33/02 H04N11/06 H04N5/00 H04N5/44 H04N5/64 H04N5/775 H04N5/93 H04N7/00 H04N7/01 H04N7/26 H04N9/804 (Core/Invention); B60R11/00 G09G5/36 H04N5/14 H04N5/66 H04N5/84 (Core/Non-invention)

International (IPC 1-7): G06K9/32 H04N11/00 H04N11/20 H04N5/14 H04N5/21 H04N5/44 H04N5/57 H04N5/64 H04N5/781 H04N5/85 H04N5/93 H04N7/01 H04N9/64 H04N9/74

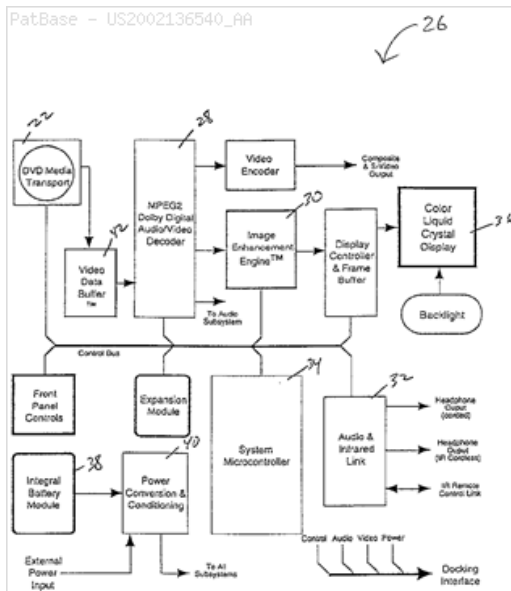
CPC: H04N7/0135 H04N21/41407 H04N21/42646 G06T5/002 G06T5/20 G06T2207/10016 G06F1/16 G06F2200/1631 G06T2207/20192 G06T2207/20012 B60R11/0235 B60R11/0211 B60R11/0252 B60R2011/0012 B60R2011/0017 G06F1/1626 G06F1/1632 G06F1/1656 G06F1/166 G06T3/40 H04N5/147 H04N21/42221 H04N21/4325 H04N21/44004 G11B33/10 G11B17/056 G11B33/025 H04N21/44008 H04N5/775 G09G5/39 G09G5/393 G09G2310/0229 H04N5/14 H04N5/144 H04N5/208 H04N5/21 H04N5/4401 H04N5/66 H04N5/85 H04N7/0112 H04N7/012 H04N9/8042

European: B60R11/02C B60R11/02E2 B60R11/02J G06F1/16 G06F1/16P3 G06F1/16P6 G06F1/16P9E G06F1/16P9E2 G06T3/40 G06T5/00D G11B17/056 G11B33/02A1 G11B33/10 H04N21/414M H04N21/426D H04N5/14M H04N5/208 H04N5/21 H04N5/775 H04N7/01F H04N7/01G3 H04N7/01T H04N9/804B L60R11/00P1F L60R11/00P1F6 S06F200/1631 S09G310/02C S09G5/39 S09G5/393 T04N5/14 T04N5/14S T04N5/44N T04N5/66 T04N5/85 T04N7/01G3

US: 345/543 345/545 345/547 348/206 348/441 348/441P 348/441S 348/446 348/446S 348/448 348/448P 348/448S 348/452 348/452P 348/452S 348/459 348/459S 348/581 348/607 348/607S 348/618 348/628 348/628P 348/678 348/678P 348/700 348/701 348/714 348/715 348/716 348/716P 348/E05.062 348/E05.067 348/E05.077 348/E05.108 348/E05.109 348/E05.133 348/E07.012 348/E07.015 348/E11.021 348/E11.021S 348/E5.062 348/E5.065 348/E5.067 348/E5.076 348/E5.077 348/E5.108 348/E5.133 348/E5.62 348/E5.62S 348/E50.65S 348/E50.67 348/E50.67S 348/E50.76S 348/E50.77S 348/E51.08 348/E51.08S 348/E51.33 348/E51.33S 348/E7.012 348/E7.015 348/E70.15 348/E70.15S 382/26 382/260 382/260S 382/264 382/264S 382/280 382/280S 382/298 386/105 386/124 386/125 386/126 386/131 386/230 386/230P 386/232 386/232P 386/361 386/362 386/362S 386/E05.07 386/E09.013 386/E5.07 386/E50.7 386/E50.70S 386/E9.013 386/E90.13 386/E90.13S 708/404 G9B/033.004 G9B/033.025 G9B/33.004 G9B/33.004S G9B/33.025 G9B/33.025S

Family:

Publication number	Publication date	Application number	Application date
AU199910688 A1	19990427	AU19990010688	19981006



CA2305368 AA	20000330	CA19982305368	19981006
CA2305368 C	20060103	CA19982305368	19981006
DE69830661 D1	20050728	DE19986030661	19981006
DE69830661 T2	20060504	DE19986030661T	19981006
EP1013089 A1	20000628	EP19980953277	19981006
EP1013089 A4	20010228	EP19980953277	19981006
EP1013089 B1	20050622	EP19980953277	19981006
JP2002528931 T2	20020903	JP20000515387T	19981006
TW449999 B	20010811	TW19990112431	19990730
US2002136540 AA	20020926	US20010032136	20011221
US2002163595 AA	20021107	US20010941949	20010828
US2003052996 AA	20030320	US20020191764	20020708
US2003098924 AA	20030529	US19990410543	19991001
US2004056978 AA	20040325	US20020251642	20020919
US2005053365 AA	20050310	US20040942740	20040915
US2005062892 AA	20050324	US20030391465	20030317
US2005162563 AA	20050728	US20050054748	20050209
US2006262217 AA	20061123	US20060357364	20060217
US2007211167 AA	20070913	US20070799699	20070501
US2008122974 AA	20080529	US20070932808	20071031
US6380978 BA	20020430	US19980167527	19981006
US6489998 BA	20021203	US19990372713	19990811
US6515706 BA	20030204	US19990396993	19990915
US6587158 BA	20030701	US19990359530	19990722
US6681059 BA	20040120	US19990363312	19990728
US6700622 BB	20040302	US19990410543	19991001
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US7359624 BB	20080415	US20040942740	20040915
US7391481 BB	20080624	US20050054748	20050209
US7499103 BB	20090303	US20060357364	20060217
US7633559 BB	20091215	US20070932808	20071031
WO9918727 A1	19990415	WO1998US21069	19981006

Priority:

US19970060974P 19971006	US19980064390P 19980728	US19980093815P 19980723
US19980095164P 19980803	US19980102946P 19981002	US19980166606 19981005
US19980100401P 19980915	US19980096144P 19980811	US19980094390P 19980728
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US20060357364 20060217	US20070799699 20070501	US20070932808 20071031

Probable Assignee: LATTICE SEMICONDUCTOR CORP

Assignee(s): (std): DVDO INC ; THOMPSON LAURENCE A ; SILICON IMAGE INC ; SILICON IMAGE ; ADAMS DALE R ; BANKS JANO D ; BUUCK DAVID C ; CHEE CHENG H

Assignee(s): CHEE CHENG HWEE ; SILLICON IMAGE INC ; DVDO INCORPORATION ; JEFFERIES FINANCE LLC ; LATTICE SEMICONDUCTOR CORP

Inventor(s): (std): ADAMS DALE R ; CHEE CHENG H ; CHENG HWEE CHEE ; DALE R ADAMS ; DAVID C BUUCK ; JANO D BANKS ; LAURENCE A THOMPSON ; THOMPSON LAURENCE A ; THOMPSON A ; CHEE HWEE ; BUUCK C ; BANKS D ; ADAMS R ; CHEE CHENG HWEE ; BUUCK DAVID C ; BANKS JANO D

Inventor(s): THOMPSON LAURENCE ; BANKS JANO ; BUUCK DAVID ; CHEE CHENG ; ADAMS DALE

Agent(s): SIM AND MCBURNEY; PERKINS COIE LLP; PERKINS COLE LLP; SILICON IMAGE INC

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GE GH GM GN GR GW HR HU ID IE IL IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG UZ VN YU ZW

12) Family number: 48962350 (US2011123081A)

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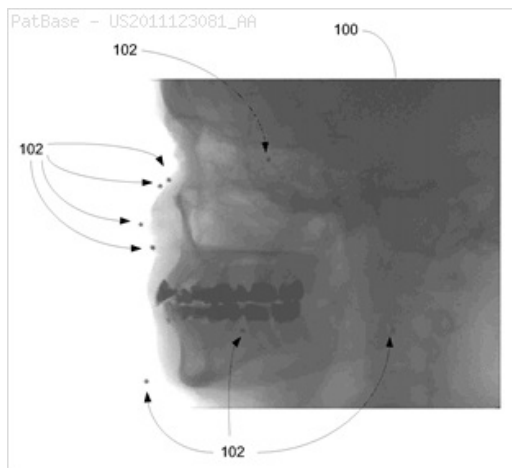
Title: CORRECTING AND RECONSTRUCTING X-RAY **IMAGES** USING PATIENT MOTION VECTORS EXTRACTED FROM MARKER POSITIONS IN X-RAY **IMAGES**

Abstract: Source: US2011123081A [EN] A method and a system for correcting and reconstruing a plurality of projection **images** based on detected patient motion. The method includes obtaining a plurality of projection **images** generated by a scanner. Each of the plurality of projection **images** includes at least three markers. Each of the at least three markers has a measured three-dimensional position and measured positions on a detector **panel** of the scanner in a first dimension and a second dimension. The method further includes determining a position error vector for each of the plurality of projection **images** based on the at least three markers in each of the plurality of projection **images**, the position error vector defining patient motion in the projection **image**. The method finally includes combining each position error vector for each of the plurality of projection **images** with geometric parameters associated with the scanner to derive a projection matrix for each of the plurality of projection **images**, and generating reconstructed **images** corrected for patient motion from the plurality of projection **images** and the projection matrix for each of the plurality of projection **images**.

Classifications:

International (IPC 8-9): A61B19/00 A61B5/05 A61B6/00 A61B6/03 G06K9/00 G06K9/32 G06K9/40 G06K9/46 G06K9/48 G06K9/62 G06T1/00 G06T11/00 G06T15/00 G06T19/00 G06T7/00 G06T7/11 G06T7/174 G06T7/187 G06T7/20 G06T7/33 G06T7/73 (Advanced/Invention); A61B6/00 G06K9/40 (Advanced/Non-invention)
CPC: G06T7/0012 G06K9/3216 G06K2009/3225 G06T2207/30204 A61B6/583 G06T19/006 A61B6/032 A61B6/4085 A61B6/501

A61B6/5264 G06T11/005 G06T2207/10116 G06T2207/30036
G06T2211/412 G06T7/0042 G06T7/337 G06T2200/04 G06T7/33
G06T7/11 G06T7/174 G06T7/187 G06T7/73 G06T2207/10081
G06T2207/20156 G06T2207/30008
European: A61B6/03B A61B6/52F2 G06K9/32P G06T11/00T1
G06T7/00D1F G06T7/00P1 K61B6/40L6 K61B6/50B S06K9/32P1
S06T207/10116 S06T207/30036 S06T207/30204 S06T211/412
US: 378/4 382/131 382/131P 382/132 382/132P 382/197 382/197S
382/260 382/263 382/264 382/275 382/275S 600/407



Family:

Publication number	Publication date	Application number	Application date
CN102754128 A	20121024	CN201080062012	20100826
CN102754128 B	20160803	CN201080062012	20100826
CN102782701 A	20121114	CN201080062385	20100826
CN102782701 B	20161130	CN201080062385	20100826
CN104598909 A	20150506	CN201510004942	20100826
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EP2504793 A4	20170823	EP20100833720	20100826
EP2504815 A1	20121003	EP20100833716	20100826
EP2504815 A4	20170426	EP20100833716	20100826
JP2013512035 T2	20130411	JP20120541073T	20100826
JP2013512038 T2	20130411	JP20120541076T	20100826
JP5572221 B2	20140813	JP20120541076T	20100826
JP5676633 B2	20150225	JP20120541073T	20100826
KR101473538 B1	20141224	KR20127016328	20100826
KR101516061 B1	20150504	KR20127016387	20100826
KR20120099082 A	20120906	KR20127016328	20100826
KR20120099471 A	20120910	KR20127016387	20100826
KR20150020724 A	20150226	KR20157002525	20100826
US2011123081 AA	20110526	US20100700032	20100204
US2011123084 AA	20110526	US20090626197	20091125
US2011123088 AA	20110526	US20100700028	20100204
US2013108136 AA	20130502	US20120716860	20121217
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US9826942 BB	20171128	US20100700032	20100204
WO11066012 A1	20110603	WO2010US46828	20100826
WO11066016 A1	20110603	WO2010US46845	20100826
WO11066017 A1	20110603	WO2010US46847	20100826

Priority:

CN201080062012 20100826 US20090626197 20091125 US20100700032 20100204
US20100700028 20100204 WO2010US46828 20100826 US20120716860 20121217
WO2010US46845 20100826

Probable Assignee: DENTAL IMAGING TECHNOLOGIES CORP

Assignee(s): (std): BRUNING HORST F ; CHARAMISINAV IVAN ; DENTAL IMAGING TECH CORP ; DENTAL IMAGING TECHNOLOGIES CORP ; GOUZEEV SERGUEI ; IMAGING SCIENCES INT LLC ; SEBOK DAVID

Assignee(s): IMAGING SCIENCES INT CORP

Inventor(s): (std): BRUNING HORST F ; CHARAMISINAV IVAN ; DAVID SEBOK ; GOUZEEV SERGUEI ; SEBOK DAVID ; SEBOK DAVID A

Agent(s): GARRATT PETER DOUGLAS; HOSHINO OSAMU; NAKANISHI MOTOHARU; ONO SHINJIRO; TOMITA HIROYUKI; KOBAYASHI YASUSHI; MICHAEL BEST AND FRIEDRICH LLP; STETTNER DEREK C

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

13) Family number: 54261988 (US2013169643A)

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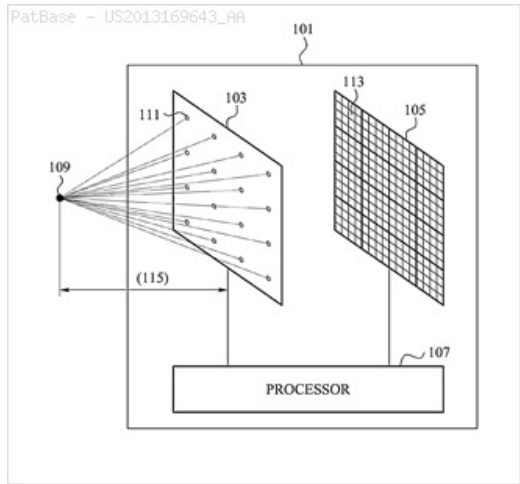
Title: **DISPLAY** APPARATUS AND METHOD FOR ESTIMATING DEPTH

Abstract: Source: US2013169643A [EN] A **display** apparatus and method may be used to estimate a depth distance from an external object to a **display panel** of the **display** apparatus. The **display** apparatus may acquire a plurality of **images** by detecting lights that are input from an external object and passed through apertures formed in a **display panel**, may generate one or more refocused **images**, and may **calculate** a depth from the external object to the **display panel** using the plurality of **images** acquired and one or more refocused **images**.

Classifications:

International (IPC 8-9): G01B11/02 G01B11/22 G06F3/03

G06F3/042 G06T15/00 G06T7/00 G06T7/571 G06T7/73 H04N13/04
H04N5/222 (Advanced/Invention)
CPC: G01B11/026 G06F3/0325 G06F3/0425 H04N5/2226
G06T2207/10024 G06T2207/10028 G06T2207/20024
G06T2207/20228 G01B11/22 G06T7/571 G06T7/74 G06T7/0069
US: 1/1 345/426 382/106



Family:

Publication number	Publication date	Application number	Application date
KR101732932 B1	20170510	KR20120086597	20120808
KR20130079981 A	20130711	KR20120086597	20120808
US2013169643 AA	20130704	US20120726808	20121226
US2016078628 AA	20160317	US20150949174	20151123
US9222767 BB	20151229	US20120726808	20121226
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Priority:

KR20120000530 20120103 KR20120086597 20120808 US20120726808 20121226
US20150949174 20151123

Probable Assignee: SAMSUNG ELECTRONICS CO LTD

Assignee(s): (std): SAMSUNG ELECTRONICS CO LTD

Assignee(s): SAMSUNG ELECTRONICS CO

Inventor(s): (std): CHOI CHANG KYU ; PARK DU SIK ; SUH SUNG JOO ; YI KWON JU

Agent(s): NSIP LAW

14) Family number: 30309151 (US2004032991A)

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Title: APPARATUS AND METHOD FOR EDGE ENHANCEMENT OF DIGITAL **IMAGE** DATA AND DIGITAL **DISPLAY** DEVICE INCLUDING EDGE ENHANCER

Abstract: Source: US2004032991A [EN] A method of edge-enhancing digital **image** data is provided, which includes: storing first and second **image** data; **calculating** difference between the first **image** data and the second **image** data; **calculating** a modification value by dividing the **calculated** difference value by a predetermined modification constant; comparing the difference with a predetermined value; and modifying the first and the second **image** data based on the modification value such that the first **image** data is decreased and the second **image** data is increased when the value of difference between the first and the second **image** data is lower than the predetermined value, and the first **image** data is increased and the second **image** data is decreased when the value of difference between the first and the second **image** data is higher than the predetermined value.

Classifications:

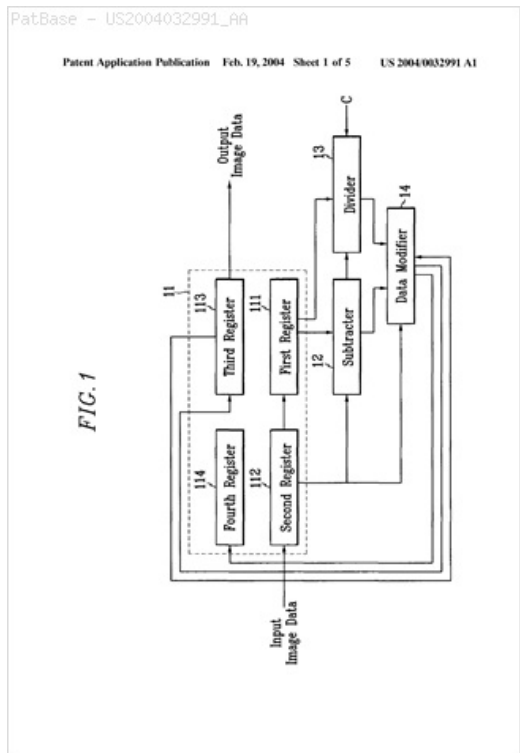
International (IPC 8-9): G02F1/133 G06K9/40 G06T5/00 G06T5/20 G09G3/20 G09G3/36 G09G5/00 G09G5/02 G09G5/36 H04N1/40 H04N5/14 H04N5/208 H04N5/66 (Advanced/Invention); H04N5/14 (Advanced/Non-invention); G02F1/13 G06K9/40 G06T5/00 G06T5/20 G09G3/20 G09G3/36 G09G5/00 G09G5/02 G09G5/36 H04N5/14 H04N5/208 H04N5/66 (Core/Invention); H04N1/40 (Core/Non-invention)

International (IPC 1-7): G02F1/133 G06K9/40 G09G3/20 G09G3/36 G09G5/00 G09G5/02 G09G5/36 H04N1/40 H04N5/14 H04N5/208 H04N5/66

CPC: G06T5/003 G06T2207/20192 G06T5/20

European: G06T5/00D G06T5/20

US: 382/254 382/263 382/264 382/266



Family:

Publication number	Publication date	Application number	Application date
JP2004080787 A2	20040311	JP20030293245	20030813
JP4544841 B2	20100915	JP20030293245	20030813
KR100870015 B1	20081121	KR20020047879	20020813
KR20040015596 A	20040219	KR20020047879	20020813
TW200404455 A	20040316	TW20030122122	20030812
TWI323121 B	20100401	TW20030122122	20030812
US2004032991 AA	20040219	US20030639923	20030812
US7184608 BB	20070227	US20030639923	20030812

Priority:

KR20020047879 20020813

Probable Assignee: SAMSUNG DISPLAY CO LTD**Assignee(s):** (std): MOON SEUNG HWAN ; SAMSUNG ELECTRONICS CO LTD**Assignee(s):** SAMSUNG ELECTRONICS CO LTD KR ; SAMSUNG DISPLAY CO LTD ; SAMSUNG ELECTRONICS CO**Inventor(s):** (std): BUN SHOKAN ; MOON SEUNG HWAN ; MUN SEUNG HWAN ; SEUNG HWAN MOON**Inventor(s):** SEUNG-HWAN MOON**Agent(s):** CANTOR COLBURN LLP**15) Family number: 12007637** (US5839033A)

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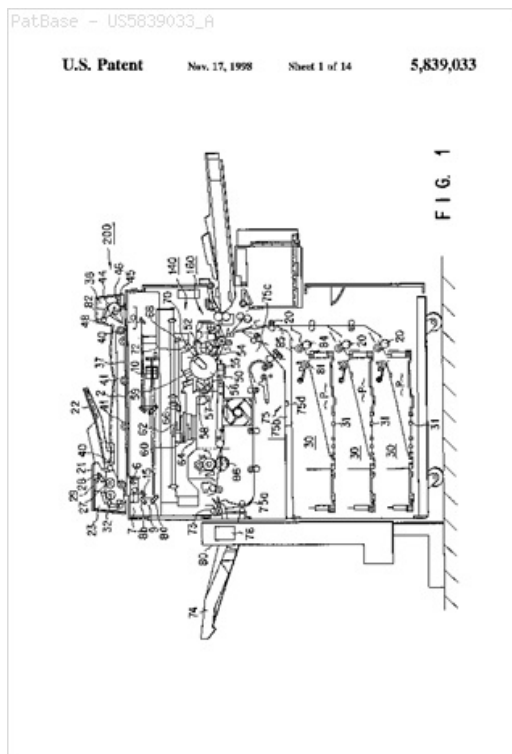
Title: Apparatus having function of setting binding margin, and method used by the apparatus

Abstract: Source: US5839033A [EN] An **image** forming apparatus and method for setting a binding margin. When a binding margin **displayed** on an LCD **display** unit of an operation **panel** has been set, a main CPU **calculates** a position, at which writing of the **image** of an original document starts, and magnification (an enlargement ratio or a reduction ratio) in accordance with a program stored in a ROM and to correspond to the binding margin and the size of sheets which are set by the LCD **display** unit and the size of the original document read by a scanner, and causes a printer to perform printing in accordance with a result of the **calculation**. When a binding margin has been set, the **image** of an original document can accurately be printed without loss of the **image** of an end portion of the **image** of the original document while maintaining the specified binding margin.

Classifications:

International (IPC 8-9): G03G15/36 G03G21/00 G06T11/60 G06T3/40 H04N1/387 H04N1/393 (Advanced/Invention); G03G15/36 G03G21/00 G06T11/60 G06T3/40 H04N1/387 H04N1/393 (Core/Invention)

International (IPC 1-7): G03G15/00 G03G15/04 G03G21/00 G06T11/60 H04N1/387 H04N1/393

CPC: G06T3/40 H04N1/3875**European:** G06T3/40 H04N1/387C2B**US:** 399/187 399/197**Family:**

Publication number	Publication date	Application number	Application date
CN1115859 C	20030723	CN19961011256	19960830
CN1161479 A	19971008	CN19961011256	19960830
EP0762731 A2	19970312	EP19960113422	19960821
EP0762731 A3	19980408	EP19960113422	19960821
JP9069939 A2	19970311	JP19950246982	19950831
US5839033 A	19981117	US19960703353	19960826

Priority:

JP19950246982 19950831

Probable Assignee: TOSHIBA KK**Assignee(s):** (std): TOSHIBA CORP ; TOSHIBA KK ; TOSHIBA TEC CORP**Assignee(s):** TOSHIBA TEC KABUSHIKI KAISHA ; TOSHIBA TEC KK ; K K TOSHIBA ; KABUSHIKI KAISHA TOSHIBA**Inventor(s):** (std): KONNO MIKI ; KONNO YOSHINORI ; SHIBAKI MASAKO ; TAKAHASHI TOSHIHARU ; TOSHIHARU

Designated states: DE FR GB

16) Family number: 34364206 (US2007076974A)

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Title: PICTURE SIGNAL **PROCESSING** APPARATUS AND PICTURE SIGNAL **PROCESSING** METHOD

Abstract: Source: US2007076974A [EN] According to one embodiment, a picture signal **processing** apparatus comprises an acquisition unit which acquires histogram data on each luminance level from luminance signals for one frame, a frequency converter unit which eliminates histogram data that corresponds to a no-**image** portion **displayed** so as to occupy a predetermined region in a screen from among the acquired histogram data, a creation unit which creates a nonlinear correction **processing** table for applying a nonlinear correction **processing** to the input luminance signal on the basis of the histogram data subjected to a frequency conversion **processing**, and a **processing** unit which applies a nonlinear correction **processing** to the input luminance signal on the basis of the created nonlinear correction **processing** table.

Classifications:

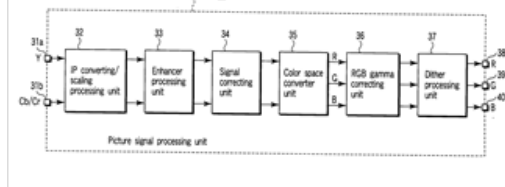
International (IPC 8-9): G06K9/40 G06T5/00 G06T5/40 G09G5/00 G09G5/36 H04N1/407 H04N5/14 H04N5/20 (Advanced/Invention); G06K9/40 G06T5/00 G06T5/40 G09G5/00 G09G5/36 H04N1/407 H04N5/20 (Core/Invention)

CPC: H04N5/57 H04N21/4318 H04N21/44008 G06T5/40 G06T5/009 H04N5/44

European: G06T5/00M2 G06T5/40 H04N9/67 H04N9/69 H04N9/77 T04N5/44

US: 348/672 348/672P 348/E5.062 348/E50.62S 382/274 382/274P

PatBase - US2007076974_AA

**Family:**

Publication number	Publication date	Application number	Application date
JP2007096997 A2	20070412	JP20050285759	20050930
JP4504294 B2	20100714	JP20050285759	20050930
US2007076974 AA	20070405	US20060519796	20060913
US2011267543 AA	20111103	US20110181135	20110712

Priority:

JP20050285759 20050930 US20060519796 20060913 US20110181135 20110712

Probable Assignee: TOSHIBA KK

Assignee(s): (std): TOSHIBA CORP ; TOSHIBA KK

Assignee(s): KABUSHIKI KAISHA TOSHIBA

Inventor(s): (std): MIYAZAWA HIROTOSHI

Agent(s): FINNEGAN HENDERSON FARABOW GARRETT AND DUNNER, LLP; FINNEGAN HENDERSON FARABOW GARRETT AND DUNNER LLP

17) Family number: 29182216 (US5239383A)

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Title: **Image processing** apparatus capable of **image** editing

Abstract: Source: US5239383A [EN] An **image processing** apparatus is provided with an input circuit for inputting a plurality of multilevel signals, each corresponding to a respective one of a plurality of pixels. An emphasizing circuit emphasizes a high frequency component of one of the multilevel **image** signals by using the multilevel **image** signals of a plurality of pixels and outputs the emphasized multilevel **image** signal. A discriminator discriminates a dot area of an **image** represented by the one multilevel signal input by the input circuit, by using the multilevel **image** signals of the plurality of pixels whose high frequency component is emphasized by the emphasizing circuit. The number of pixels used by the discriminator is larger than the number of pixels used by the emphasizing circuit.

Classifications:

International (IPC 8-9): G06T7/00 G06T7/40 G06T7/60 G06T9/20 H04N1/38 H04N1/40 H04N1/405 H04N1/409

H04N1/46 (Advanced/Invention); G06T7/00 G06T7/40 G06T7/60 G06T9/20 H04N1/38 H04N1/40 H04N1/405 H04N1/409 H04N1/46 (Core/Invention)

International (IPC 1-7): G03F3/08 G06F15/70 G06K9/46 G06T7/00 G06T9/20 H04N1/00 H04N1/034 H04N1/21 H04N1/38 H04N1/40 H04N1/405 H04N1/409 H04N1/46

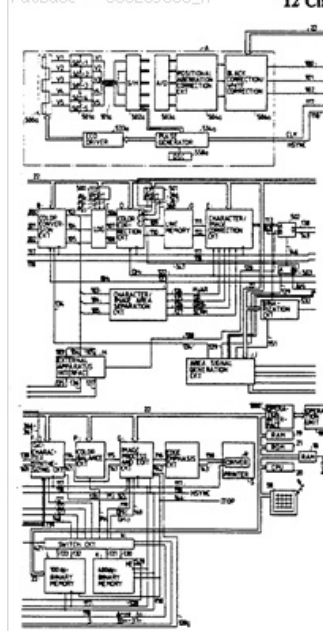
CPC: H04N1/40062 H04N1/4092

European: H04N1/409B H04N1/40L

US: 347/3 358/296 358/300 358/448 358/462 358/518 358/529 358/538 382/165 382/190

PatBase - US5239383_A

12 Claims, 113 Drawing Sheets

**Family:**

Publication number	Publication date	Application number	Application date
JP2295355 A2	19901206	JP19890117004	19890510
JP2295359 A2	19901206	JP19890117017	19890510
JP2295360 A2	19901206	JP19890117023	19890510
JP3004995 B2	20000131	JP19890117004	19890510
JP3004997 B2	20000131	JP19890117017	19890510
JP3048156 B2	20000605	JP19890117023	19890510
US5239383 A	19930824	US19900519448	19900504
US5550638 A	19960827	US19950481825	19950607
US5703694 A	19971230	US19960600361	19960213

Priority:

JP19890117004 19890510 JP19890117017 19890510 JP19890117023 19890510
US19960600361 19960213 US19950481825 19950607 US19930021853 19930224
US19900519448 19900504

Probable Assignee: CANON INC

Assignee(s): (std): CANON KK

Assignee(s): CANON INC ; CANON KABUSHIKI KAISHA

Inventor(s): (std): HAYASHI KIMIYOSHI ; HAYASHI MASAYOSHI ; HONMA TOSHIO ; HORIE YOSHIKO ; ICHIKAWA HIROYUKI ; IKEDA YOSHINORI ; KURITA MITSURU ; USUI YOSHIKO

18) Family number: 46165564 (US2011267637A)

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Title: AUTOMATIC REGISTER CONTROL SYSTEM WITH INTELLIGENT OPTICAL SENSOR AND DRY PRESETTING FACILITY

Abstract: Source: US2011267637A [EN] A print **processing** system for introducing dry register presetting among a plurality of print stations prior to mounting web on the printing device in all conditions before starting a print job; and also automatically controlling print registration using intelligent sensor(s) for minimizing disturbances caused due to transmission losses and distortion in transfer of analog signals. The intelligent sensor is capable of detecting and evaluating the register errors as well as initiating the correction commands in response to self-evaluated register errors. The print **processing** system is capable of comprehensively compiling, monitoring and **displaying** the real-time data including all the local machine parameters, print misregistration values and the performance for each printing station. The method of achieving dry presetting and controlling the print misregistration is also provided.

Classifications:

International (IPC 8-9): B41F1/34 B41F13/02 B41F13/12 B41F33/00 B41L35/04 G03B17/14 G03B17/18 G06K15/00 G06T7/00 H04N5/225 (Advanced/Invention);

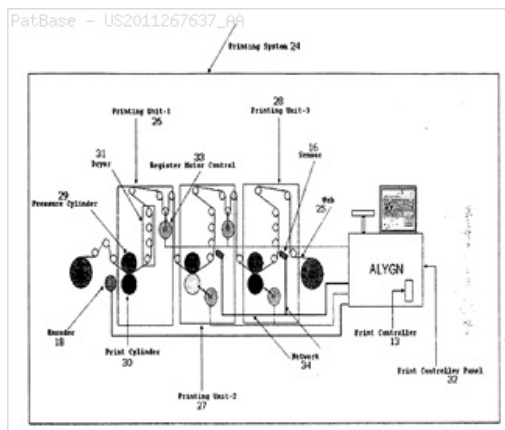
B41F1/00 B41F13/08 B41L35/00 (Core/Invention)

International (IPC 1-7): G03B17/14 G03B17/18 G06T7/00 H04N5/225

CPC: B41F13/025 B41F33/0081

European: B41F13/02R B41F33/00H

US: 358/1.14 358/1.140P



Family:

Publication number	Publication date	Application number	Application date
EP2391509 A2	20111207	EP20090838195	20091027
EP2391509 A4	20120822	EP20090838195	20091027
IN00105MU2009 A	20101217	IN2009MU00105	20090116
US2011267637 AA	20111103	US20090144805	20091027
WO10082215 A2	20100722	WO2009IN00609	20091027
WO10082215 A3	20100910	WO2009IN00609	20091027

Priority:

IN2009MU00105 20090116 WO2009IN00609 20091027

Probable Assignee: ECOAXIS SYSTEMS PVT LTD

Assignee(s): (std): ECOAXIS SYSTEMS PVT LTD ; OZA AMIT

Assignee(s): ECO AXIS SYSTEMS PRIVATE LTD

Inventor(s): (std): OZA AMIT

Inventor(s): AMIT OZA

Agent(s): HANNKE CHRISTIAN; ROY CHOWDHURY MAHUA

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

19) Family number: 15305620 (WO0122070A1)

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Title: METHOD AND SYSTEM OF LCD INSPECTION BY PATTERN COMPARISON

Abstract: This patent discloses the method and system design of an automated visual inspection system for liquid crystal displays (LCDs). **Image** defect is detected by comparing the **image displayed** by an LCD **panel** under inspection with a template **image** which the LCD **panel** is supposed to **display**. The LCD **panel** under inspection is allowed to be placed loosely on the inspection platform. The algorithm corrects for the effect of object pose and **image** perspective to produce a 2-D **image** of the pattern that appears on the LCD **panel**. Next, the two patterns are **subtracted** to obtain an error **image**. From the error **image**, pattern discrepancy is evaluated at every pixel location to detect for LCD defects.

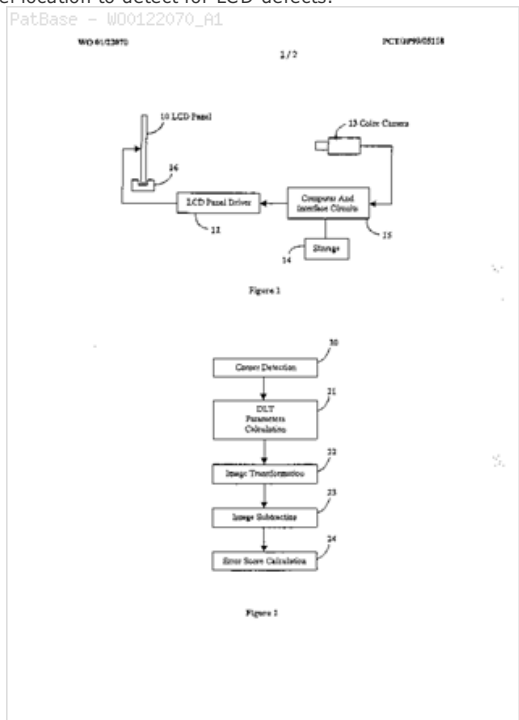
Classifications:

International (ipc 8-9): G01B11/30 G01M11/00 G01N21/956
G02F1/13 G06T1/00 G06T7/00 (Advanced/Invention);
G01N21/95 (Advanced/Non-invention);
G01B11/30 G01M11/00 G01N21/88 G02F1/13 G06T1/00
G06T7/00 (Core/Invention)

International (ipc 1-7): G01B11/30 G01M11/00 G01N21/956
G02F1/13 G06T1/00 G06T7/00

CPC: G06T7/80 G06T7/001 G01N21/95607 G01N2021/9513
G01N2021/95615

European: G01N21/956A G06T7/00B1R G06T7/00C G06T7/00P
S01N21/956A2 S01N21/95G



Family:

Publication number	Publication date	Application number	Application date
JP2003510568 T2	20030318	JP20010525192T	19990920
WO0122070 A1	20010329	WO1999JP05118	19990920

Priority:

WO1999JP05118 19990920

Probable Assignee: MATSUSHITA ELECTRIC IND CO LTD

Assignee(s): (std): KAIDA MAKOTO ; LAU KEAN HONG ; MATSUSHITA ELECTRIC IND CO LTD ; TONG KOK HUA ; YABE TATSUYA

Assignee(s): MATSUSHITA ELECTRIC INDUSTRIAL CO ; MATSUSHITA ELECTRIC INDUSTRIAL CO LTD ; PANASONIC CORP

Inventor(s): (std): KAIDA MAKOTO ; LAU KEAN HONG ; TONG KOK HUA ; YABE TATSUYA

Designated states: JP SG US