

Diego Gonzalez

1) Family number: 20668200 (US5814188A)

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Title: Soft tissue paper having a surface deposited substantive softening agent

Abstract: Strong, soft, and low dusting tissue paper webs useful in the manufacture of soft, absorbent sanitary products such as bath tissue, facial tissue, and absorbent towels are disclosed. At least one surface of the tissue papers has uniform discrete surface deposits of a substantively affixed chemical softening agent.

Classifications:

International (IPC 8-9): D21H17/00 D21H17/07 D21H17/59 D21H19/10 D21H21/14 D21H21/22 D21H27/02 (Advanced/Invention); D21H17/07 D21H17/59 D21H27/02 (Advanced/Non-invention); D21H17/00 D21H19/00 D21H21/22 D21H27/02 (Core/Invention); D21H17/00 D21H27/02 (Core/Non-invention)

International (IPC 1-7): A47K B32B D21H D21H17/00 D21H17/06 D21H17/07 D21H17/45 D21H19/10 D21H21/14 D21H21/22 D21H27/02

CPC: D21H17/07 D21H17/59 D21H21/22 D21H27/02

European: D21H21/22 N21H17/07 N21H17/59 N21H27/02

US: 162/109 162/111 162/112 162/113 162/125 162/127 162/128

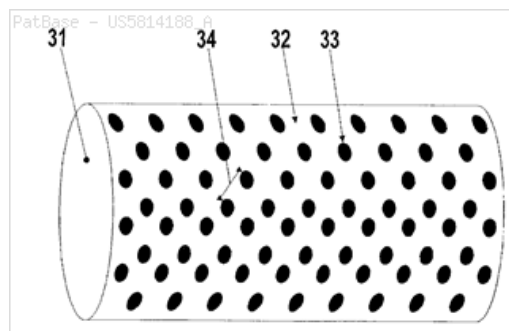
162/129 162/130 162/134 162/135 162/158 162/164.4

JP F-Term: 4L055 4L055/AG34 4L055/AG35 4L055/AG38 4L055/AG86 4L055/AG88 4L055/AH50 4L055/AJ01 4L055/AJ10 4L055/BD07

4L055/BE08 4L055/EA15 4L055/EA29 4L055/EA30 4L055/EA32

4L055/EA40 4L055/FA13 4L055/FA16 4L055/GA29

JP F-Index: D21H19/10/A



Family:

Publication number	Publication date	Application number	Application date
AT294894 E	20050515	AT19970951707T	19971215
AU199855276 A1	19980731	AU19980055276	19971215
AU730321 B2	20010301	AU19980055276	19971215
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KR20000069802 A	20001125	KR19997005948	19971215
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NO993208 A0	19990628	NO19990003208	19990628
NO993208 L	19990830	NO19990003208	19990628
PE33699 A1	19990423	PE19970001174	19971230
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US5814188 A	19980929	US19960777829	19961231
WO9829605 A1	19980709	WO1997US23077	19971215
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Priority:

US19960777829 19961231 WO1997US23077 19971215

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): PROCTER AND GAMBLE ; PROCTER AND GAMBLE CO ; THE PROCTER AND GAMBLE CO ; THE PROCTER AND GAMBLE COMPANY

Assignee(s): THE PROCTER AND GAMBLE CO CINCINNATI OHIO ; VINSON KENNETH DOUGLAS ; WEISMAN PAUL THOMAS ; THE PROCTER AND GAMBLE COMPANY CINCINNATI ; FICKE JONATHAN ANDREW ; GAMBLE CO ; KLOFTA THOMAS JAMES ; PROCTER AND

Inventor(s): (std): VINSON KENNETH D ; WEISMAN PAUL T ; FICKE JONATHAN A ; VINSON KENNETH DOUGLAS ; WEISMAN PAUL THOMAS ; FICKE JONATHAN ANDREW ; KLOFTA THOMAS JAMES ; PAUL T WEISMAN ; JONATHAN A FICKE ; KENNETH D VINSON ; THOMAS JAMES KLOFTA ; JONATHAN ANDREW FICKE ; KENNETH DOUGLAS VINSON ; PAUL THOMAS WEISMAN ; VINSON DOUGLAS ; WEISMAN THOMAS ; FICKE ANDREW ; KLOFTA JAMES

Inventor(s): James ; Kenneth Douglas ; Klofta ; Vinson

Agent(s): PHILLIPS ORMONDE FITZPATRICK; DIMOCK STRATTON LLP; WILSON LUE LLP; HARNECKER; CARLOS REINALDO OLARTE GARCIA

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

2) Family number: 20676904 (US2007195308A)

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Title: IMAGING OF SURGICAL BIOPSIES

Abstract: In order to determine, rapidly and without the delay required by conventional tissue preparation techniques for pathological examination (freezing, sectioning, staining, etc.), whether, an excision, which may be a biopsy sample, is representative of the morphology of interest of whether an excisional biopsy in which the tissue taken completely removes the abnormality is, in either case, the tissue which is desired to be excised, the tissue specimen (18) in encapsulated, preferably as part of the biopsy procedure. The encapsulated tissue is contained in an optically transparent cassette (34). The cassette (34) or an endcap (38) enclosing the cassette is marked with a fiducial (40) indicating and corresponding to the location of the excision on the patient's body. An image, which is preferably a representation of a surface of the tissue specimen and the vertical section(s) area of the tissue internal of the specimen and adjacent to a surface thereof, is obtained by means of an electro-optical imaging system (10), preferably a confocal laser scanning microscope. The cassette is moved, preferably in a stage (22) which rotates the cassette while translating it, so that the head (12) of the confocal microscope (its objective lens) provides a linear scan in a direction perpendicular to the wall of the cassette (also perpendicular to the surface of the tissue encapsulated in the cassette). The display (28) from the microscope indicates the morphology at and in proximity to the surface of the specimen as well as the location thereof. The pathologist and the surgeon is thereby provided with information concerning the specimen and whether the entire abnormality desired to be removed has indeed been removed and/or whether the biopsy is representative of the body region of interest in the case of a biopsy sample.

Classifications:

International (IPC 8-9): A61B5/05 G01J1/42 G01N1/00 G01N1/28 G01N1/36 G01N21/01 G01N21/17 G01N21/64 G02B21/00 G02B21/24 G02B21/34 G02B21/36 (Advanced/Invention); A61B10/00 G01N1/28 G01N1/36 G01N21/01 G01N21/17 G02B21/24 G02B21/34 G02B21/36 (Advanced/Non-invention); G01J1/42 G01N1/00 G01N1/28 G01N1/36 G01N21/01 G01N21/17 G02B21/00 G02B21/24 G02B21/34 G02B21/36 (Core/Invention); A61B10/00 (Core/Non-invention)

International (IPC 1-7): A61B5/05 G01N1/28 G01N21/01 G01N21/17 G01N21/64 G02B21/00 G02B21/24 G02B21/34 G02B21/36

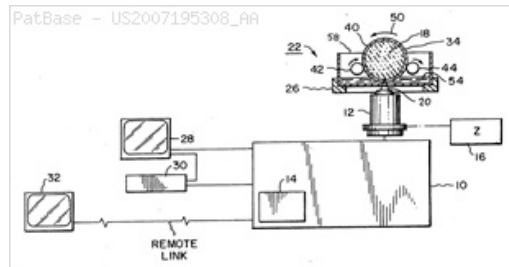
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European: G01N1/36 G02B21/00M4A G02B21/00M4A1 K61B10/00S S02B21/34

US: 356/224 356/224S 356/244 356/36 356/36P

JP F-Term: 2G052 2G052/AA28 2G052/AD34 2G052/FA00 2G052/GA32 2G059 2G059/AA06 2G059/BB12 2G059/DD11 2G059/EE02 2G059/FF02 2G059/FF03 2G059/JJ17 2H052 2H052/AA08 2H052/AD13 2H052/AD18 2H052/AD31 2H052/AE13 2H052/AF02 2H052/AF14

JP F-Index: G01N1/28/J G01N1/28/U G01N21/01/B G01N21/17/620 G02B21/00 G02B21/24 G02B21/34 G02B21/36



Family:

Publication number	Publication date	Application number	Application date
AU199959208 A1	20000403	AU19990059208	19990913
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EP1121052 A4	20060510	EP19990946898	19990913
EP1121052 B1	20180725	EP19990946898	19990913
JP2002524780 T2	20020806	JP20000569625T	19990913
US2007195308 AA	20070823	US20070788920	20070423
US7227630 BA	20070605	US19990786901	19990913
US8115918 BB	20120214	US20070788920	20070423
WO0015021 A2	20000323	WO1999US20997	19990913
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Priority:

US19980100179P 19980914 US19980100179P 19980914 US19990786901 19990913
WO1999US20997 19990913 US20010786901 20010309 US20070788920 20070423

Probable Assignee: CALIBER IMAGING AND DIAGNOSTICS INC

Assignee(s): (std): GREENWALD ROGER J ; LUCID INC ; ZAVISLAN JAMES M

Assignee(s): WESTERN ALLIANCE BANK ; CALIBER IMAGING AND DIAGNOSTICS INC ; NORTHEAST LCD CAPITAL LLC ; SQUARE 1 BANK

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Inventor(s): ZAVISLAN JAMES ; GREENWALD ROGER

Agent(s): BALDUS OLIVER; KENNETH J LUKACHER; KENNETH J

Designated states: AE 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 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 US UZ VN YU ZA ZW

Title: TISSUE STAINING AND PROCESSING MACHINE

Abstract: A tissue-staining or processing machine houses a gear motor to effect intermittent vertical reciprocation of a gear rack and a connected slide or tissue sample carrier for corresponding movements in registry with and successively into a series of tank supporting compartments arranged in a circle within an intermittently rotated turntable. A plurality of dye and solvent tanks are supported within some of the compartments; and a rinse tank is housed below the turntable in registry with the slide or tissue sample carrier which descends through an open compartment. A motor drive provides intermittent rotation of the turntable to present successive tanks to the carrier for dipping therein. Each compartment has its own external timing device for determining the period of immersion of the slide carrier in the corresponding tank, i.e., controlling duration of stopping of carrier lift motor including a potentiometer for each timer. Extended time periods of repetitive timing are provided at the same stations employing a stepping coil. Some of the tanks may have thermostatically controlled heating elements to regulate the solution temperature, also cooling elements.

Classifications:

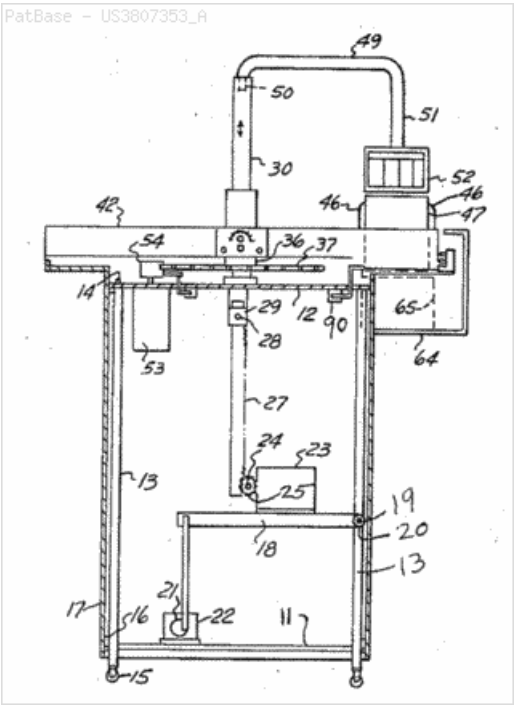
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International (IPC 1-7): B05C11/12 D06B23/12

CPC: G01N1/31 G01N1/312 G01N2001/315

European: 8D9A3C2 G01N1/31 G01N1/31B S01N1/31C

US: 118/425 118/5 118/57 118/667 118/702 118/707



Family:

Publication number	Publication date	Application number	Application date
US3807353 A	19740430	US19720310045	19721129

Priority:

US19720310045 19721129

Probable Assignee:

DEVCO INC

Assignee(s): (std):

DEVCO INC

Assignee(s):

DEVCO INC US

Inventor(s): (std):

KOBERNICK S

Inventor(s):

KOBERNICK S US

Title: TISSUE-STAINING AND PROCESSING MACHINE

Abstract: (Claim 1) 1. In a tissue-staining a processing machine, a housing; a crank motor on the housing including an arcuately rotatable intermittently reciprocal crank; an intermittently and vertically reciprocal shaft guidably mounted upon and projecting above the housing flexibly and pivotally connected to said crank; an inverted U-shaped rod at one end axially secured to said shaft; a slide carrier suspended from its other end for reciprocal intermittent movement in a vertical plane; a turntable co-axial of said shaft journaled upon said housing for rotation in a horizontal plane below said slide carrier; the series of apertured support compartments in the turntable arranged in a circle at a radius corresponding substantially to the slide carrier; a plurality of dye and solvent carrying tanks nested respectively in a number of said compartments adapted to receive said slide carrier on downward movement thereof for immersion of tissue carrying slides in said carrier; a motor on the housing connected to the turntable to intermittently rotate the turntable short incremental distances equal to the distance between tank centers; and a stationary rinsing tank mounted upon said housing below said turntable and slide carrier; said slide carrier adapted to drop through an empty compartment of the turntable when stationary for immersion in said rinsing tank.

Classifications:

International (IPC 8-9): G01N1/31 (Advanced/Invention); G01N1/30 (Core/Invention)

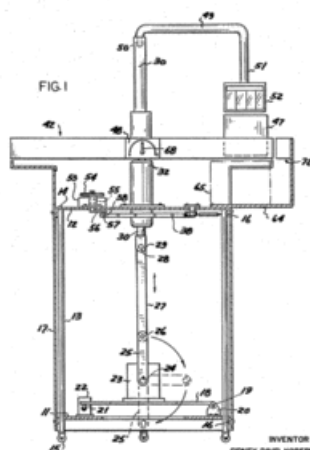
International (IPC 1-7): G01N1/30

CPC: G01N1/31

European: G01N1/31

US: 118/421 118/425 118/702 118/707 134/121 134/58R 134/61

Feb. 7, 1967 S. D. KOBERNICK 3,302,607
 TISSUE-STAINING AND PROCESSING MACHINES
 Filed April 30, 1965 5 Sheets-Sheet 1



INVENTOR
 SIDNEY DAVID KOBERNICK

BY *Carlton Herman & Partner*
 ATTORNEYS

Family:

Publication number	Publication date	Application number	Application date
US3302607 A	19670207	US19650452186	19650430

Priority:

US19650452186 19650430

Probable Assignee:

DAVID KOBERNICK SIDNEY

Assignee(s): (std):

DAVID KOBERNICK SIDNEY

Inventor(s): (std):

DAVID KOBERNICK SIDNEY

Inventor(s):

KOBERNICK SIDNEY DAVID

5) Family number: 31809360 (US2006093200A)

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Title: OPTICAL PROJECTION TOMOGRAPHY

Abstract: Apparatus for obtaining an image of a specimen (6) by optical projection tomography comprises a confocal microscope (1, 2, 3) which produces a light beam which scans the specimen (6) whilst the latter is supported in a rotary stage (7). Light passing through the specimen is passed through a convex lens (8) which directs, onto a central light detector of an array of detectors (9), light which exits or by-passes the specimen parallel to the beam incident on the specimen.

Classifications:

International (IPC 8-9): A61B10/00 A61B5/00 A61B5/05 B05C3/00 C12M1/34 C12M3/00 C12Q1/68 G01N1/00 G01N1/04 G01N1/28 G01N1/30 G01N1/31 G01N15/14 G01N21/17 G01N21/47 G01N21/62 G01N21/64 G01N33/48 G01N33/50 G01N33/53 G01N33/567 G02B21/00 G02B21/36 G06K9/00 (Advanced/Invention); C12M3/00 G01N35/04 (Advanced/Non-invention); A61B10/00 A61B5/05 C12M1/34 C12Q1/68 G01N1/00 G01N1/04 G01N1/28 G01N1/30 G01N15/14 G01N21/17 G01N21/47 G01N21/64 G01N33/48 G01N33/50 G01N33/53 G01N33/567 G02B21/00 G02B21/36 G06K9/00 (Core/Invention); G01N35/04 (Core/Non-invention)

International (IPC 1-7): A61B10/00 A61B5/00 C12M3/00 G01N1/00 G01N1/04 G01N1/28 G01N1/31 G01N21/17 G01N21/62 G01N21/64 G01N33/48 G01N33/50 G01N33/53 G02B21/00 G02B21/36

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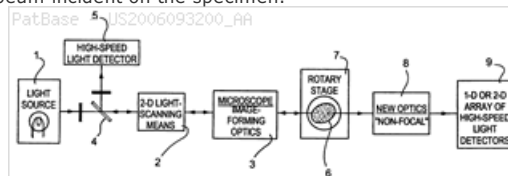
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US: 118/423 118/429 359/363 359/368 382/131 382/131P 435/287.1 435/287.100S 435/40.5 435/40.500S 435/6 435/6.19 435/6.190P 435/6P 435/7.2 435/7.200S 600/425 600/425P

JP F-Term: 2G052 2G052/AA28 2G052/CA07 2G052/CA45 2G052/CA48 2G052/DA01 2G052/DA33 2G052/GA11 2G052/JA15 2G043 2G043/AA03 2G043/BA16 2G043/DA05 2G043/EA01 2G043/FA01 2G043/FA02 2G043/HA01 2G043/HA09 2G043/KA09 2G043/LA03 2G045 2G045/AA25 2G045/BA14 2G045/BB20 2G045/BB24 2G045/CB01 2G045/CB17 2G045/CB19 2G045/CB20 2G045/DA36 2G045/DA37 2G045/DA77 2G045/FA16 2G045/FB07 2G045/FB11 2G045/FB12 2G045/JA07 2G043/BA17 2G043/DA02 2G043/DA06 2G043/EA13 2G043/EA14 2G043/GA02 2G043/GA07 2G043/GB19 2G045/FB03 2G045/GC09 2G059 2G059/AA05 2G059/AA06 2G059/BB12 2G059/CC16 2G059/DD12 2G059/DD13 2G059/FF03 2G059/GG01 2G059/JJ11 2G059/JJ15 2G059/JJ22 2G059/KK03 2G059/KK04 4C029

JP F-Index: G01N1/00/101/A G01N1/04/J G01N1/28/J G01N21/64/Z G01N33/48/P G01N33/53/Y A61B10/00/E G01N21/17/620 G01N21/64/E G01N21/64/F

Family:



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WO04020996 A1	20040311	WO2003GB03726	20030829
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Priority:

GB20020014846 20020627 GB20020020156 20020830 GB20020020157 20020830
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WO2003GB03726 20030829 WO2003GB05143 20031126

Probable Assignee: MEDICAL RESEARCH COUNCIL

Assignee(s): (std): MEDICAL RES COUNCIL ; MEDICAL RES COUNCIL LONDON ; PERRY PAUL ERNEST ; SHARPE JAMES A ; SHARPE JAMES ALEXANDER

Assignee(s): MEDICAL RESEARCH COUNCIL ; MEDICAL RESEARCH COUNCIL LONDON

Inventor(s): (std): SHARPE ALEXANDER ; ALEXANDER SHARPE JAMES ; PERRY PAUL ERNEST ; SHARPE JAMES ALEXANDER ; SHARPE JAMES A

Inventor(s): SHARPE JAMES ; PAUL ERNEST PERRY ; JAMES ALEXANDER SHARPE

Agent(s): CALLINANS; FISHER ADAMS KELLY CALLINANS; SPRUSON AND FERGUSON; KIRBY EADES GALE BAKER; NAKAMURA GIHEI; NODA HISATO; SAKAI MASAYUKI; HORII YUTAKA; MORITA TOSHIO; FUKAMI HISAO; BARNES AND THORNBURG LLP

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 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

Abstract: A machine for automatically subjecting matter (e.g. in the preparations of tissue for microscopic examination) successively to the action of different preparations for predetermined periods comprises a plurality of receptacles arranged in a circle or part circle, a hinged arm carrying a basket or like for the matter to be treated, means for raising and lowering the arm about its hinge to remove the basket from or insert it in a receptacle, means for rotating the arm from one receptacle to the next and a time control mechanism controlling the said movements. As shown the machine comprises a frame 10 having a circular top 14 supporting a number of beakers 16 arranged in a circle and containing the treating fluids. Rotatably supported by the frame is a cover disc 18 to which is hinged one end of an arm 20 having at the other a hook or the like 21 to which is attached a basket 22 containing the tissue or specimen to be treated. The arm 20 is raised and lowered about the hinge to remove the basket from or insert it into a beaker by an arm 44 operated by a crank 43 driven by an electric motor 11 which also drives a shaft 17 which rotates the cover 18 to move the basket from one beaker to the next, the cover having an aperture 19 through which the basket passes, the latter having a cover 23 to close the aperture when the basket is in a beaker. The arm 20 contains an electric motor 39 fed through contacts 41, 42 to rotate the basket 22 through a belt drive 40. Energization of the motor 11 to move the arm 20 and rotate the plate 18 to effect a sequence of immersions of the basket is controlled by one of two electric timing devices 12, 13, Fig. 5 according to the period over which treatment is to extend, the particular device being selected by a switch 24. Each device 12, 13 drives a disc 25, Fig. 3, having peripheral notches 26 adapted to be engaged by a pivoted lever 27, the latter, on such engagement, operating a microswitch 28 the arm of which moves from contact 28a to 28b, Fig. 5, and energizes the motor 11. The latter drives two cams 45, 46 the former, immediately the motor moves, opens a switch 49 to stop the timing device so as to hold the disc 25 stationary. The cam 46, after the motor has removed the basket from one beaker and inserted it in the next moves the arm of a switch 50 from contact 50a to 50b thereby stopping the motor. Simultaneously the cam 45 closes the switch 49 to restart the timing device and as the arm 27 rides out of the notch 26 the arm of switch 28 returns to the contact 28a and the motor 11 makes a small movement to return the cams 45, 46 to the "start" position, the latter cam returning the arm of switch 50 to the contact 50a. The sequence is repeated when the following notch 26 reaches the lever 27. To start the sequence of operation at a time after the timing device has been set in motion, the lever 27 may be held out of engagement with the disc 25 by engagement of a pin 32 with a pivoted arm 31. An arm 29 is adjustably mounted on the disc 25 and at the desired time engages a pin 30 on the arm 31 moving the latter to release the lever 27 to allow it to engage the edge of the disc 25. A similar device may be provided on the other timing device to stop the operation at a predetermined time.

ALSO: A machine for automatically subjecting matter (e.g. in the preparations of tissue for microscopic examination) successively to the action of different preparations for predetermined periods comprises a plurality of receptacles arranged in a circle or part circle, a hinged arm carrying a basket or like for the matter to be treated, means for raising and lowering the arm about its hinge to remove the basket from or insert it in a receptacle, means for rotating the arm from one receptacle to the next and a time control mechanism controlling the said movements. As shown the machine comprises a frame 10 having a circular top 14 supporting a number of beakers 16 arranged in a circle and containing the treating fluids. Rotatably supported by the frame is a cover disc 18 to which is hinged one end of an arm 20 having at the other a hook or the like 21 to which is attached a basket 22 containing the tissue or specimen to be treated. The arm 20 is raised and lowered about the hinge to remove the basket from or insert it into a beaker by an arm 44 operated by a crank 43 driven by an electric motor 11 which also drives a shaft 17 which rotates the cover 18 to move the basket from one beaker to the next, the cover having an aperture 19 through which the basket passes, the latter having a cover 23 to close the aperture when the basket is in a beaker. The arm 20 contains an electric motor 39 fed through contacts 41, 42 to rotate the basket 22 through a belt drive 40. Energization of the motor 11 to move the arm 20 and rotate the plate 18 to effect a sequence of immersions of the basket is controlled by one of two electric timing devices 12, 13, Fig. 5, according to the period over which treatment is to extend, the particular device being selected by a switch 24. Each device, 12, 13 drives a disc 25, Fig. 3, having peripheral notches 26 adapted to be engaged by a pivoted lever 27, the latter, on such engagement, operating a microswitch 28 the arm of which moves from contact 28a to 28b, Fig. 5, and energizes the motor 11. The latter drives two cams 45, 46; the former, immediately the motor moves, opens a switch 49 to stop the timing device so as to hold the disc 25 stationary. The cam 46, after the motor has removed the basket from one beaker and inserted it in the next moves the arm of a switch 50 from contact 50a to 50b thereby stopping the motor. Simultaneously the cam 45 closes the switch 49 to restart the timing device and as the arm 27 rides out of the notch 26 the arm of switch 28 returns to the contact 28a and the motor 11 makes a small movement to return the cams 45, 46 to the "start" position, the latter cam returning the arm of switch 50 to the contact 50a. The sequence is repeated when the following notch 26 reaches the lever 27. To start the sequence of operation at a time after the timing device has been set in motion, the lever 27 may be held out of engagement with the disc 25 by engagement of a pin 32 with a pivoted arm 31. An arm 29 is adjustably mounted on the disc 25 and at the desired time engages a pin 30 on the arm 31 moving the latter to release the lever 27 to allow it to engage the edge of the disc 25. A similar device may be provided on the other timing device to stop the operation at a predetermined time.

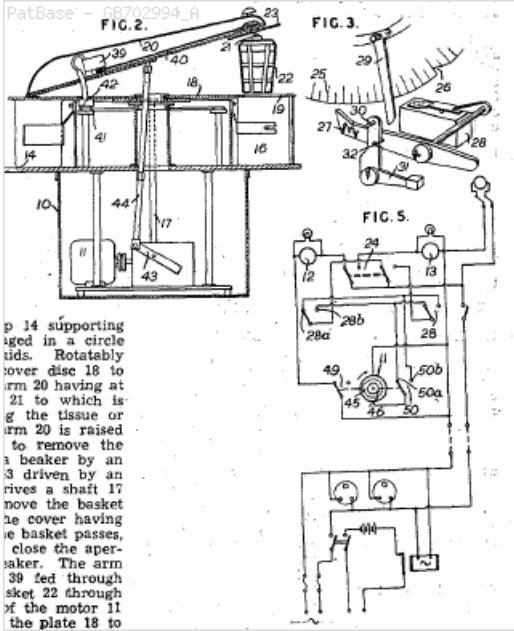
Classifications:

International (IPC 8-9): G01N1/31 (Advanced/Invention);

G01N1/30 (Core/Invention)

CPC: G01N1/31

European: G01N1/31



Family:

Publication number	Publication date	Application number	Application date
GB702994 A	19540127	GB19500024797	19501011

Priority:

GB19500024797 19501011

Probable Assignee: ELLIOTTS LIVERPOOL LTD

Assignee(s): (std): ELLIOTTS LIVERPOOL LTD ; WILLIAM ELLIOTT
Assignee(s): ELLIOTTS LIVERPOOL LIMITED

7) Family number: 52184521 (CN102735519A)

PatBase

Title: AUTOMATIC STAINING APPARATUS FOR BIOLOGICAL TISSUE

Abstract: The invention discloses an automatic staining apparatus for a biological tissue, and relates to a biological staining apparatus. The apparatus comprises a rotating tray, a staining cup large lid, staining cups, a stepper motor a, a stepper motor b, a hanging frame, a staining cup small lid, a vertical rod and a horizontal rod. The twenty staining cups are arranged on the rotating tray. The staining cup large lid is arranged on the rotating tray and the twenty staining cups. The edge of the rotating tray is provided with a gear tooth plate, which is connected with the stepper motor a. The vertical rod forms a vertical connection with the horizontal rod. The lower end of the vertical rod is provided with a reel, and is connected with the stepper motor b. The outer end of the horizontal rod is provided with a pulley. The connection position of the horizontal rod and the vertical rod is provided with a pulley. A steel wire is arranged on the two pulleys and the reel. The steel wire connected with the lower end of the horizontal rod is provided with the hanging frame, wherein the staining cup small lid is arranged above the hanging frame. With the present invention, the intelligent design, the pre-programmed intelligent software program, the microcomputer Chinese input interface, and the multi-parameter control system are adopted, such that intelligent automatic staining process with the characteristic of multi-parameter control is achieved.

Classifications:

International (IPC 8-9): G01N1/31 (Advanced/Invention)

Family:

Publication number	Publication date	Application number	Application date
CN102735519 A	20121017	CN201210201789	20120619

Priority:

CN201210201789 20120619

Probable Assignee: UNIV SHENYANG
Assignee(s): (std): SHENYANG UNIV ; UNIV SHENYANG
Assignee(s): SHENYANG UNIVERSITY
Inventor(s): (std): WEI ZHU
Inventor(s): ZHU WEI

8) Family number: 29429274 (US2004002163A)

PatBase

Title: AUTOMATED HIGH VOLUME SLIDE STAINING SYSTEM

Abstract: An automated slide processing apparatus includes a plurality of work stations arranged in a stack, and a transport/elevator for transporting slides between the various work stations.

Classifications:

International (IPC 8-9): B01L3/00 B01L3/02 B01L9/00 B05C11/02

B05C13/00 G01N1/00 G01N1/10 G01N1/28 G01N1/30 G01N1/31

G01N1/36 G01N35/00 G01N35/02 G02B21/34 (Advanced/Invention);

G01N35/00 (Advanced/Non-invention);

B01L9/00 G01N1/00 G01N1/10 G01N1/28 G01N1/30 G01N1/36

G01N35/00 G02B21/34 (Core/Invention)

International (IPC 1-7): B01L3/00 B01L3/02 B01L9/00 B05C11/02

B05C13/00 G01N1/00 G01N1/10 G01N1/28 G01N1/30 G01N1/31

G01N15/06 G01N21/00 G01N31/00 G01N33/00 G01N35/00 G01N35/02

G02B21/34

CPC: G01N35/00732 Y10T436/2575 G01N1/30 G01N35/00029

G01N35/0099 G01N2035/00039 G01N2035/00138 B01L9/52

B01L2300/0822 G01N1/312 G01N1/36 Y10T436/11 Y10T436/112499

Y10T436/25

European: B01L9/52 G01N1/31B G01N1/36 L01L300/08B8 S01N1/31B

S01N35/00G3C

US: 1/1 422/100 422/400 422/400S 422/501 422/508 422/509 422/536

422/563 422/63 422/63P 422/63S 422/64 422/65 422/65P 422/65S

422/66 422/67 422/68.1 422/68.7 422/99 422/99S 435/40.5 435/5 435/6.11 436/174 436/174P 436/180 436/43 436/43P 436/43S

436/46

JP F-Term: 2G052 2G052/CA03 2G052/CA08 2G052/CA41 2G052/CA46 2G052/CA48 2G052/DA07 2G052/DA32 2G052/EA03

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2G052/FA00 2G052/GA32 2G052/HC41 2G058 2G058/CB08 2G058/CB15 2G058/CC09 2G058/CD11 2G058/CD21 2G052/AB18

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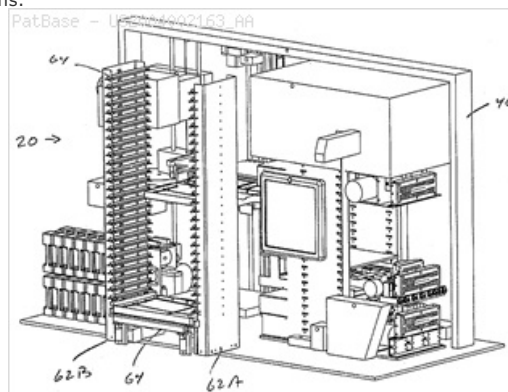
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JP F-Index: G01N1/00/101/B G01N1/28/U G01N1/30 G01N1/31 G01N1/28/F G01N35/02/F G01N1/28/W

Family:

Publication number	Publication date	Application number	Application date
AU2003224987 AA	20031103	AU20030224987	20030415
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AU2006203033 BB	20120614	AU20060203033	20060714
CA2482441 AA	20041013	CA20032482441	20030415
CA2482441 C	20100622	CA20032482441	20030415



CA2514627 AA	20061027	CA20052514627	20050803
CA2514627 C	20131001	CA20052514627	20050803
CA2695837 AA	20031030	CA20032695837	20030415
CA2695837 C	20151229	CA20032695837	20030415
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DE60344429 D1	20130829	DE20036044429	20030415
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DK1717571 T3	20180305	DK20050018517T	20050825
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ES2657864 T3	20180307	ES20050018517T	20050825
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JP2006308575 A2	20061109	JP20060093269	20060330
JP2008197115 A2	20080828	JP20080089521	20080331
JP2013092532 A2	20130516	JP20120288092	20121228
JP4299150 B2	20090722	JP20030585882T	20030415
JP5037405 B2	20120926	JP20080089521	20080331
JP5658226 B2	20150121	JP20120288092	20121228
US2004002163 AA	20040101	US20030414804	20030415
US2005186114 AA	20050825	US20050116676	20050427
US2005250211 AA	20051110	US20050181625	20050713
US2008038836 AA	20080214	US20070876059	20071022
US2014178858 AA	20140626	US20130082092	20131115
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US2019257846 AA	20190822	US20190399592	20190430
US2019257847 AA	20190822	US20190399740	20190430
US2020088750 AA	20200319	US20190689046	20191119
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US8663991 BB	20140304	US20050181625	20050713
US9528918 BB	20161227	US20130082092	20131115
US10302665 BB	20190528	US20160351411	20161114
WO03089140 A1	20031030	WO2003US11651	20030415

Priority:

US20020372506P	20020415	CA20032482441	20030415	EP20030721687	20030415
JP20030585882	20030415	EP20070019951	20030415	WO2003US11651	20030415
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US20190399592	20190430	US20190399740	20190430	US20190689046	20191119

Probable Assignee: VENTANA MEDICAL SYSTEMS INC

Assignee(s): (std): AMBLER BRANDON ; ASHBY AUSTIN ; BORCHERT CHRIS ; CAMPBELL DEVON C ; LEMME CHARLES D ; CHRISTENSEN KIMBERLY ; FREEMAN MATTHEW ; GHUSSON ANDREW ; GRIEBEL RICK ; HENDRICK KENDALL B ; HOLUBEC MIROSLAV ; VENTANA MED SYST INC ; REINHARDT KURT ; WARD GLEN ; RICHARDS WILLIAM ; SHOWALTER WAYNE ; RICHARDS WILLIAM L ; MEHTA PARULA ; RIZZO VINCE ; VENTANA MEDICAL SYSTEMS INC ; VENTANA MEDICAL SYST INC ; VENTANA MEDICAL SYSTEMS LNC

Assignee(s): VENTANA MEDICAL SYSTEMS INC TUCSON ; RIZZO VINCENT

Inventor(s): (std): REINHARDT KURT ; LEMME CHARLES D ; WARD GLEN ; RICHARDS WILLIAM ; SHOWALTER WAYNE ; RICHARDS WILLIAM L ; AMBLER BRANDON ; ASHBY AUSTIN ; BORCHERT CHRIS ; CAMPBELL DEVON C ; CHRISTENSEN KIMBERLY ; FREEMAN MATTHEW ; GHUSSON ANDREW ; GRIEBEL RICK ; HENDRICK KENDALL B ; HOLUBEC MIROSLAV ; MEHTA PARULA ; RIZZO VINCE ; RIZZO VINCENT ; CAMPBELL DEVON ; CHARLES D LEMME ; KURT REINHARDT ; WILLIAM RICHARDS ; WAYNE SHOWALTER ; GLEN WARD ; SCHOWALTER WAYNE ; ASHBY AUSTIN MICHEIL ; RIZZO VINCENT R ; HOLUBEC MIREK ; ASHBY AUSTIN MICHELL

Inventor(s): HENDRICK KENDALL ; SHOWALTER WAYNE TUCSON ; LEMME CHARLES D TUCSON ; RICHARDS WILLIAM TUCSON ; REINHARDT KURT TUCSON ; WARD GLEN TUCSON ; LEMME CHARLES ; AUSTIN ASHBY ; BRANDON AMBLER ; MATTHEW FREEMAN ; CHRIS BORCHERT ; VINCENT RIZZO ; ANDREW GHUSSON ; PARULA MEHTA ; KENDALL B HENDRICK ; DEVON CAMPBELL ; MIROSLAV HOLUBEC ; RICK GRIEBEL ; KIMBERLY CHRISTENSEN

Agent(s): PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; PIZZEYS PATENT AND TRADE MARK ATTORNEYS; PIZZEYS; GOWLING LAFLEUR HENDERSON LLP; MUELLER BORE AND PARTNER PATENTANWAELTE PARTG MBB; PERREY RALF; MUELLER-BORE AND PARTNER PATENTANWAELTE; MUELLER BORE AND PARTNER PATENTANWAELTE; MUELLER BORE AND PARTNER PATENTANWAELTE; ISERN JORGE; ADEN A REHMS PHD;

ADEN A REHMS PHD VENTANA MEDICAL SYSTEMS INC; VENTANA MEDICAL SYSTEMS INC ATTENTION
LEGAL DEPARTMENT; VENTANA MEDICAL SYSTEMS INC; REHMS ADEN A; ADEN A; SEED INTELLECTUAL
PROPERTY LAW GROUP PLLC; PERKINS COIE LLP
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 NI 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 US UZ VC VN YU ZA ZM ZW

Designated states:

9) Family number: 44443635 (CN201413267Y)

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Title: Eight-jar automatic staining machine for hematoxylin and eosin (HE) staining of biological tissue paraffin section

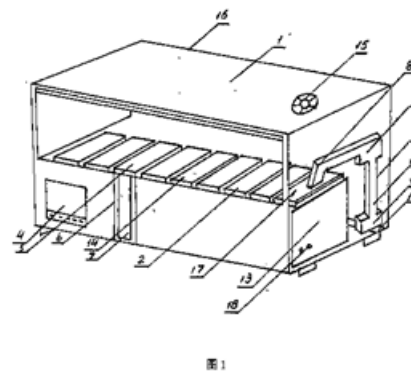
Abstract: The utility model aims to provide an eight-jar automatic staining machine for hematoxylin and eosin (HE) staining of biological tissue paraffin sections. The automatic staining machine can accomplish the mechanical automated operation through applying a microcomputer to control, and comprises a chassis body, a constant-temperature water tank and a lifting movement mechanism, wherein the chassis body is connected with the lifting movement mechanism; the chassis body comprises a chassis housing, a liquid crystal display and an electric hair dryer; the liquid crystal display is arranged on the front surface of the chassis housing; the electric hair dryer is positioned on the right side above the chassis housing; a rinsing bath is positioned in the middle of the constant-temperature water tank; four staining jars are arranged on the two sides of the rinsing bath; and a vertical motor and a horizontal motor control the lifting movement mechanism. The utility model has the advantages of less operational programs and filmmaking occupied time, energy conservation, and chemical agent and whole machine raw material consumption conservation, reduces production and processing costs of the whole machine, and increases staining speed while improves staining quality.

Classifications:

International (IPC 8-9): G01N1/31 (Advanced/Invention)

PatBase - CN201413267_Y

说明书附图 第1/1页



Family:

Publication number	Publication date	Application number	Application date
CN201413267 Y	20100224	CN200920099915U	20090520

Priority:

CN200920099915U 20090520

Probable Assignee:

XIAOHUI ZHAO

Assignee(s): (std):

XIAOHUI ZHAO

Assignee(s):

ZHAO XIAOHUI

Inventor(s): (std):

XIAOHUI ZHAO

Inventor(s):

ZHAO XIAOHUI

10) Family number: 195485 (US3165108A)

© PatBase

Title: APPARATUS FOR AUTOMATICALLY TRANSFERRING AN ARTICLE FROM A SERIES OF BATHS OR THE LIKE IN WHICH IT IS IMMERSERD FOR PREDETERMINED PERIODS OF TIME

Abstract: 993,952. Dip coating apparatus. ELLIOTTS LIVERPOOL Ltd. Oct. 28, 1963 [Dec. 11, 1962], No. 46698/62. Heading B2B. [Also in Division B8] Apparatus for processing slides, specimens or the like in a series of baths comprises a stationary table 10 for supporting an upper tier of baths 11 arranged in circular formation and a rotatable table 12 for supporting a lower tier of baths 13 concentric with the upper tier. A disc or cover 14 for the upper baths carries a holder 15 for slides c. and is adapted to be stepped around by a Geneva mechanism 16. Raising and lowering of the disc 14 to withdraw from or immerse the slide carrier 15 in one of the baths 11 is effected by a lever and cam mechanism 20, 21. An electric motor 17 controlled by time switches 18 or 24

moves the disc, one or other of the time-switches being selected according to the length of the time cycle required. The lower table 12 is stepped round by a Geneva mechanism 22 driven by a motor 25 controlled by the switch 18 or 24. This motor also actuates a bath elevator 25 positioned for vertical movement in axial alignment with a hole 19 in the upper table 10. Each of the baths 13 of the lower tier 15 is positioned over an opening 26 in the lower table 12, the head of the elevator 25 being adapted to pass through the openings. A non-rotatable cover 29 covers all the baths of the lower tier excepting that in which the slide carrier is for the time being immersed and which is in register with an opening 30 in the cover 29. Connection of one or the other or both time switches 18, 24 in circuit is effected by selector switches 38, 39. Presuming that the apparatus is to operate in series, i.e. the slide or tissue is traversed first through the upper tier of baths and then through the lower tier; the selector switch is set to select either the time switch 18 or the time switch 24, the selector switch 39 remaining in the "off" position. After the slide or slides in the holder 15 have remained in the first bath 11 of the upper tier for the period determined by the switch 18 or 24, the motor 17 is switched on and the carrier 15 together with the disc 14 is raised, turned to lie over the second bath and then lowered, so as to bring the slide into that bath. After the predetermined period the slide is transferred to the third bath and so on. When the holder 15 moves to the twelfth position occupied by the hole 19 in the table 10, the disc 14, during its descent, operates a change-over switch 33 which terminates the upper tier cycle and starts the motor 23. The first bath of the lower tier is then raised by the elevator 25 so that the carrier and slide are immersed. The motor 23 then stops. After the predetermined time the bath is lowered on to the rotatable table 12, the table is rotated to bring the second bath of the tier under the holder 15 and the bath is then raised through the hole 19 so that the slide is immersed therein. This procedure continues throughout the twelve baths of the lower tier. On reaching the final position a bell rings to warn that the staining cycle has been completed. An aerating device 34 or a pulsating pumping device may be provided to agitate the liquid. The selector switches 38, 39 provide for switching over to parallel operation of the two tiers of baths. The motors 17, 23 then operate at the same time and identical programmes are carried out on the upper and lower tiers. A further and stationary slide holder 15a holds the slides to be immersed in the lower tier baths. Both tiers can be operated independently, i.e. as two separate machines. Automatic charging and discharging of the slides may be arranged and more than two tiers of baths provided.

Classifications:

International (IPC 8-9): B65G49/04 G01N1/31 (Advanced/Invention);

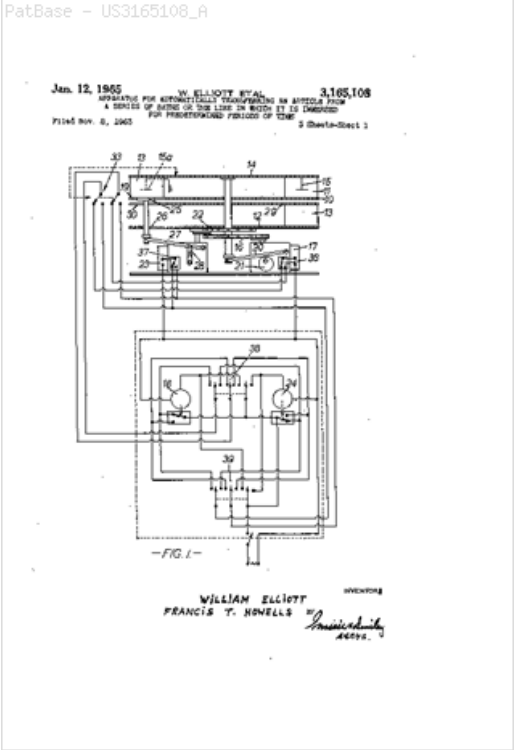
B65G49/00 G01N1/30 (Core/Invention)

International (IPC 1-7): B65G49/04 C12K1/10

CPC: G01N1/31 G01N1/312 B65G49/0445

European: B65G49/04B4A2 G01N1/31 G01N1/31B

US: 118/425 118/429 134/58R 134/77



Family:

Publication number	Publication date	Application number	Application date
DE1262887 B	19680307	DE1963E025888	19631120
GB993952 A	19650602	GB19620046698	19621211
US3165108 A	19650112	US19630322487	19631108

Priority:

GB19620046698 19621211

Probable Assignee: ELLIOTTS LIVERPOOL LTD

Assignee(s): (std): ELLIOTTS LIVERPOOL LTD

Assignee(s): ELLIOTTS LIVERPOOL LIMITED

Inventor(s): (std): WILLIAM ELLIOTT ; THOMAS HOWELLS FRANCIS ; HOWELLS FRANCIS THOMAS ; ELLIOTT WILLIAM

11) Family number: 32753443 (US2006063755A)

© PatBase

Title: LOXAPINE ANALOGS AND METHODS OF USE THEREOF

Abstract: The invention relates to novel compounds and methods of using them for modulating sleep.

Classifications:

International (IPC 8-9): A61K A61K31/55 A61K31/553 A61K31/554 A61P

A61P25/00 A61P25/20 C07D C07D267/02 C07D267/16 C07D267/18

C07D267/20 C07D413/02 C07D413/04 (Advanced/Invention);

A61K31/553 A61P25/00 C07D267/02 C07D413/02 (Advanced/Non-invention);

A61K31/00 A61K31/55 A61K31/553 A61K31/554 A61P25/00 C07D267/00

C07D413/00 (Core/Invention);

A61K A61P C07D (Subclass/Invention)

International (IPC 1-7): A61K31/55 A61K31/553 A61P25/00 C07D267/02

CPC: A61K31/553 C07D267/20 C07D413/12 Y02A50/415 A61P25/00 A61P25/20

European: A61K31/553 C07D267/20 C07D413/12

US: 514/211.13 514/211.130P 540/551 540/551P 540/551S

JP F-Term: 4C056 4C056/AA03 4C056/AB01 4C056/AC03 4C056/AD06 4C056/AE04 4C056/FA01 4C056/FB10 4C056/FC01 4C086 4C086/AA01 4C086/AA02 4C086/AA03 4C086/BC75 4C086/MA01 4C086/MA04 4C086/NA14 4C086/ZA05 4C201

JP F-Index: A61K31/553 A61P25/20 C07D267/20/CSP

JP Facet: CSP

PatBase - NZ553900_A

END

Family:

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Priority:

US20040611849 20040921

US20040611849P 20040921

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EP20050801120 20050921 US20050232590 20050921 US20050233417 20050921
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US20090411083 20090325

Probable Assignee: HYPNION INC

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Inventor(s): (std): EDGAR DALE M ; HANGAUER DAVID G ; SHIOSAKI KAZUMI ; SOLOMON MICHAEL ; WHITE JAMES F ; EDGAR DALE M HANGAUER DAVID G ; MICHAEL SOLOMON ; KAZUMI SHIOSAKI ; WHITE JAMES ; HANGAUER DAVID ; EDGAR DALE ; SHIOSAKI KADZUMI ; HANGAUER DAVID G

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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 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 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

12) Family number: 73195702 (CN208505728U)

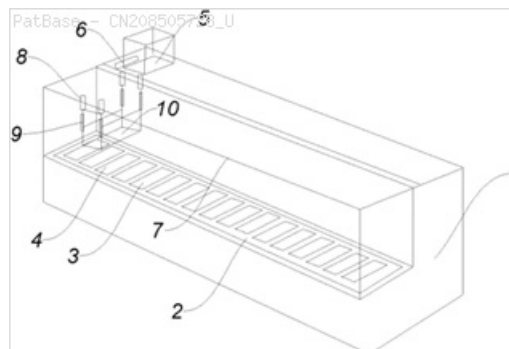
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Title: PATHOLOGICAL TISSUE AUTOMATIC SLICING MACHINE DYEING MACHINE

Abstract: The utility model discloses a pathological tissue automatic slicing machine dyeing machine, which comprises a frame, the bottom of frame is concave jar, be equipped with staining jar and other function jars in the concave jar, machine front end top is equipped with conventional histotome, the histotome goes out the piece mouth and is equipped with the slide, frame the place ahead top is equipped with the slide bar of two parallels, the cover is equipped with the bearing on the slide bar, the hanging flower basket has been hung through the telescopic link to the bearing, the histotome go out the piece mouth the loading be covered with the slide glass hanging flower basket of cell, the cylinder control of telescopic link through locating the frame rear portion, adjust the vertical height of hanging flower basket, make the hanging flower basket submerge the staining jar, the step motor drive of bearing through locating the frame rear portion is god forward along the slide bar. The utility model discloses erecting histopathologic slide mechanism in the dyeing machine, making current dyeing machine function increase, simultaneously, dyeing efficiency improves, and the time is shorter.

Classifications:

International (IPC 8-9): G01N1/31 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN208505728 U	20190215	CN201820691090U	20180510

Priority:

CN201820691090U 20180510

Probable Assignee: UNIV CHANGSHA MEDICAL

Assignee(s): (std): UNIV CHANGSHA MEDICAL

Assignee(s): CHANGSHA MEDICAL UNIV

Inventor(s): (std): LI YALIN ; CHU YAN E ; LONG JUAN

13) Family number: 45905275 (WO10074915A2)

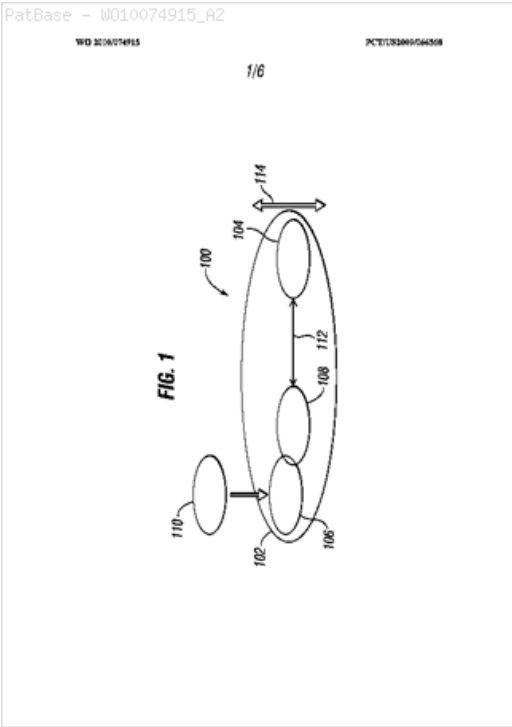
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Title: EVAPORATION MITIGATION FOR SLIDE STAINING APPARATUS

Abstract: A device for mitigating evaporation of treatment liquids from a sample on a substrate can include a solvent reservoir and a conduit. A slide with a sample on a surface thereof can be placed into a device, creating a capillary gap between the slide surface and a surface of the device. Treatment fluids can be dispensed and drawn into the capillary gap, such as by capillary action. The slide and/or the reservoir can be moved towards the conduit, such that the fluid in the capillary gap contacts a fluid meniscus formed in the conduit. In this manner, fluid lost to evaporation from the capillary gap can be replenished by fluid in the conduit and reservoir, via capillary action. The slide and/or reservoir can then be moved again to break contact with the conduit, and the fluid within the capillary gap can then be mixed, such as by rocking the slide.

Classifications:

International (IPC 8-9): G01N1/28 G01N35/00 (Advanced/Invention);



Family:

Publication number	Publication date	Application number	Application date
WO10074915 A2	20100701	WO2009US66568	20091203
WO10074915 A3	20100916	WO2009US66568	20091203

Priority:

US20080140259P 20081223

Probable Assignee: VENTANA MED SYST INC

Assignee(s): (std): KRAM BRIAN H ; VENTANA MED SYST INC

Assignee(s): VENTANA MEDICAL SYSTEMS INC

Inventor(s): (std): KRAM BRIAN H

Agent(s): DUROCHER AMY B

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 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