

Search history

Search 1: FT=(NETWORK~ AND CONNECTION~ AND GRAPH~ AND DISPLAY~ AND USER~ AND INTERFACE~) (Results 101437)

Title:	TWO SPEED TAPE TRANSPORT WITH INDEPENDENT AUDIO AND VIDEO MODES OF OPERATION			
Priority:	GB19660021722 19660516	US19590835017 19590820	US19610126121 19610724	
	US19640344075 19640211	US19620178293 19620308	US19640393282 19640831	
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Family:	Publication number	Publication date	Application number	Application date
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International class (IPC 8-9): G11B15/02 G11B15/18 G11B15/22 G11B15/26 G11B15/28 G11B15/29 G11B15/295 G11B15/43 G11B15/44 G11B15/60 G11B15/62 G11B15/665 G11B15/675 G11B20/02 G11B20/20 G11B23/00 G11B23/04 G11B23/06 G11B23/07 G11B27/10 G11B27/34 G11B5/00 G11B5/008 G11B5/02 G11B5/03 G11B5/035 G11B5/11 G11B5/127 G11B5/187 G11B5/265 G11B5/29 G11B5/41 G11B5/465 G11B5/49 G11B5/54 G11B5/55 G11B5/56 G11B5/58 H03F1/50 H04N5/44 H04N5/775 H04N5/782 H04N5/7822 H04N5/91 H04N5/92 H04N5/921 H04N5/931 H04N7/084 H04N9/79 H04N9/80 H04N9/82 H04N9/825 (Advanced/Invention); G11B15/00 (Advanced/Non-invention); G11B15/02 G11B15/18 G11B15/26 G11B15/28 G11B15/43 G11B15/44 G11B15/60 G11B15/62 G11B15/665 G11B15/675 G11B20/20 G11B23/00 G11B23/04 G11B27/10 G11B27/34 G11B5/00 G11B5/008 G11B5/02 G11B5/03 G11B5/035 G11B5/10 G11B5/127 G11B5/187 G11B5/265 G11B5/41 G11B5/465 G11B5/49 G11B5/54 G11B5/55 G11B5/56 G11B5/58 H03F1/42 H04N5/775 H04N5/782 H04N5/92 H04N5/921 H04N5/931 H04N7/084 H04N9/80 (Core/Invention)

International class (IPC 1-7): G01D15/12 G11B15/00 G11B15/18 G11B15/22 G11B15/28 G11B15/29 G11B15/32 G11B15/43 G11B15/46 G11B15/60 G11B15/66 G11B21/12 G11B21/24 G11B23/04 G11B23/06 G11B23/08 G11B23/10 G11B3/48 G11B3/58 G11B31/00 G11B5/00 G11B5/02 G11B5/10 G11B5/12 G11B5/16 G11B5/20 G11B5/24 G11B5/26 G11B5/27 G11B5/28 G11B5/30 G11B5/44 G11B5/45 G11B5/46 G11B5/54 G11B5/56 H03F1/34 H03F1/50 H04N1/22 H04N5/16 H04N5/62 H04N5/76 H04N5/78 H04N5/785 H04N5/79 H04N7/00 H04N7/04 H04N9/02 H04N9/535

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US class: 15/256.5 178/54 178/54CD 178/66 178/66A 179/100.2 200/51.09 200/511 226/188 226/195 226/42 226/60 226/61 242/325.2 242/326 242/326.4 242/334 242/355 242/419.4 242/55.19A 242/615.4 318/103 318/161 336/233 346/74MC 348/480 348/E07.027 348/E7.027 358/4 360/112 360/118 360/119 360/119.01 360/119.05 360/120 360/121 360/122 360/123 360/123.01 360/123.17 360/125 360/125.01 360/126 360/128 360/129 360/130.21 360/130.31 360/24 360/251 360/261.3 360/291.3 360/33 360/36 360/55 360/60 360/61 360/62 360/65 360/66 360/67 360/77.12 360/78.02 360/82 360/90 360/91 360/93 360/94 361/151 386/1 386/102 386/11 386/114 386/201 386/202 386/218 386/230 386/237 386/263 386/269 386/274 386/302 386/304 386/306 386/308 386/313 386/314 386/315 386/316 386/32 386/338 386/353 386/39 386/46 386/84 386/85 386/9 386/96 386/E05.003 386/E05.009 386/E05.01 386/E05.03 386/E05.043 386/E05.044 386/E05.07 386/E09.011 386/E09.027 386/E5.003 386/E5.009 386/E5.01 386/E5.03 386/E5.043 386/E5.044 386/E5.047 386/E5.011 386/E9.027 G9B/005.026 G9B/005.031 G9B/005.040 G9B/005.051 G9B/005.068 G9B/005.146 G9B/005.183 G9B/015.002 G9B/015.021 G9B/015.082 G9B/023.001 G9B/027.017 G9B/15.002 G9B/15.021 G9B/15.032 G9B/15.036 G9B/15.037 G9B/15.039 G9B/15.04 G9B/15.048 G9B/15.05 G9B/15.076 G9B/15.077 G9B/15.082 G9B/15.085 G9B/20.06 G9B/23.001 G9B/23.049 G9B/23.056 G9B/23.06 G9B/27.017 G9B/27.051 G9B/5.008 G9B/5.026 G9B/5.031 G9B/5.032 G9B/5.037 G9B/5.04 G9B/5.051 G9B/5.068 G9B/5.144 G9B/5.146 G9B/5.16 G9B/5.181 G9B/5.182 G9B/5.183 G9B/5.184 G9B/5.201 G9B/5.202

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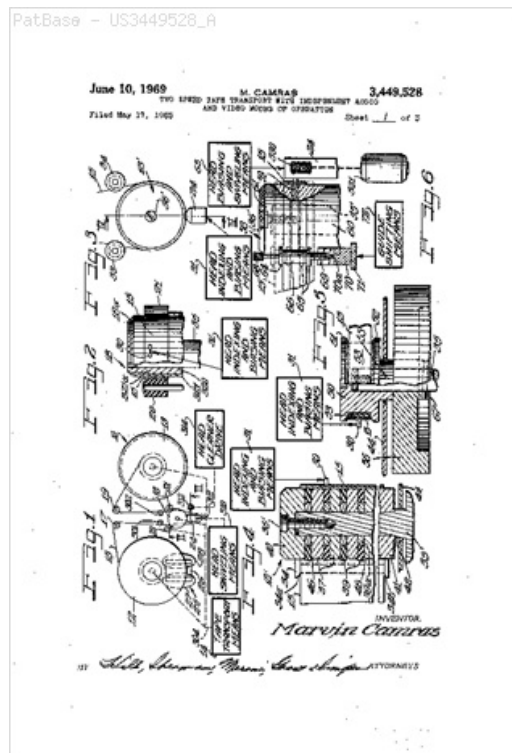
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WO9962105, WO9962105, WO8806787, WO8301142, US9866963, US9719727, US9258664, US8907236, US8751028, US8035047, US7987281, US7961430, US7907736, US7636443, US7272883, US7099101, US7092186, US7092186, US6928880, US6661608, US6524380, US6473265, US6469486, US6466454, US6344947, US6157767, US6040963, US5959812, US5812347, US5675388, US5671106, US5617279, US5523860, US5461529, US5436774, US5423116, US5420729, US5416664, US5394285, US5357383, US5321517, US5189572, US5130876, US5119255, US5021910, US4998833, US4996620, US4931886, US4894736, US4809118, US4748669, US4704647, US4700253, US4683509, US4665446, US4644417, US4639821, US4633347, US4568987, US4566049, US4462553, US4432015, US4427160, US4412638, US4399478, US4398229, US4380779, US4361852, US4352577, US4321634, US4318147, US4316226, US4245268, US4232329, US4198662, US4180836, US4180835, US4121264, US4117521, US4110800, US4110798, US4104683, US4088953, US4081878, US4068258, US4063290, US4040088, US4030128, US4009491, US3979773, US3978523, US3975767, US3964104, US3949421, US3947972, US3946147, US3944993, US3916102, US3911477, US3882544, US3829894, US3826915, US3824618, US3810230, US3795762, US3787637, US3767209, US3756365, US3731289, US3711656, US3700828, US3697705, US3696216, US3693982, US3685836, US3684841, US3670114, US3647990, US3629518, US3577191, US3555204, US3550149, US3493675, US3493666, US3478339, US2009066465, US2008289938, US2008068753, US2008022009, US2006092546, US2005092093, US2005047013, JP59147658, GB2149186, GB2122407, GB2122406, FR2727555, FR2532459, FR2443733, FR2413742, FR2323206, FR2323206, FR2306493, EP1653446, EP0714090, EP0423770, EP0423770, EP0293804, EP0293804, EP0207571, EP0207571, EP0102897, EP0089645, EP0083207, EP0012649, DE3530212,

Abstract:

Source: US3449528A [EN] ABSTRACT OF THE DISCLOSURE

A longitudinal scan video and/or audio magnetic transducer apparatus with provision for head shifting, bulk demagnetization, automatic head cleaning by means of a revolving brush, and conversion between video transducing operation at a high transducing speed and audio transducing operation at a low transducing speed. This invention relates to a transducer apparatus and particularly to a tape record transducer apparatus in which a tape record medium is transported past a transducer head at sufficiently high speed to accommodate recording and/or playback of video intelligence signals. An object of the present invention is to provide a novel tape transducer arrangement which is uniquely simple and economical and yet which is capable of meeting the relatively critical requirements of a video signal transducing system. Another object of the present invention is to provide a novel and improved capstan assembly for insuring against tape slippage. Another object of the present invention is to provide a novel capstan assembly and transducer head configuration providing stable coupling of the head to the tape and relatively uniform motion across the head. Another object of the present invention is to provide a novel and improved indexing means for relatively shifting the head and tape to place the head in spaced relation to successive channels of a tape record medium. Another object of the present invention is to provide indexing means providing for automatic return of the head to an initial channel after scanning of a series of channels in succession. Another object of the present invention is to provide a novel indexing means which provides for biasing the head against the tape in transducing condition thereof and retraction of the head prior to an indexing operation. Another object of the present invention is to provide a novel bulk erase means for a tape transducer system. Another object of the present invention is to provide an automatically cycled bulk erase means directly associated with an operating position of a tape reel on a tape transducer apparatus. Another object of the present invention is to provide an interlock for preventing inadvertent bulk erase of the tape record medium. Still another object of the present invention is to provide a bulk erase system wherein the intensity of an alternating erase magnetic field is gradually reduced to zero automatically to demagnetize a record medium in coil form.



Title: IMAGE SEQUENCE ENHANCEMENT SYSTEM AND METHOD

Priority: AU20110348121 20111222 AU20150213286 20150811 US19700004509 19700121
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Family:

Publication number	Publication date	Application number	Application date
AU2002305387 AA	20021118	AU2002305387	20020506
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Agent(s): COLLISON AND CO; BORDEN LADNER GERVAIS LLP; SMITHS IP; LUCEY MICHAEL; KLUNKER SCHMITT NILSON HIRSCH; DALINA LAW GROUP PC; ARC IP LAW PC; JOSEPH J; MAYO JOSEPH J

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN 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 PA 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 YU ZA ZM ZW

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International class (IPC 1-7): F02M17/18 F02M21/04 G06K9/00 G06K9/40 G06T11/00 G06T5/00 H04N1/46 H04N9/43

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European class: F02M21/04 F02M21/06 G06T11/00C G06T5/00D G06T7/00D1T G06T7/20A G06T7/20F H04N13/02B H04N13/02C2 H04N9/43 R02B43/00

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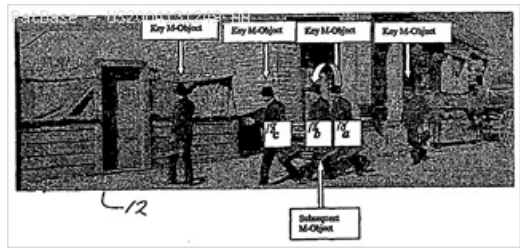
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Abstract:

Source: US2004131249A [EN] Scenes in a motion picture to be colorized are broken up into separate elements, composed of backgrounds/sets or motion/onscreen-action. These backgrounds elements and motion elements are combined separately into single frame representations of multiple frames, as tiled frame sets or as a single frame composite of all elements (i.e., both motion and backgrounds/foregrounds) that then becomes a visual reference database that includes data for all frame offsets which are later used for the computer controlled application of masks within a sequence composed of a plurality of frames. Each pixel address within the visual reference database corresponds to a mask/lookup table address within the digital frame and X, Y, Z location of subsequent frames that were used to create the visual reference database. Masks are applied to subsequent frames of motion objects based on various differentiating image processing methods, including automated mask fitting of all masks in an entire frame, automated mask fitting of single masks in each frame, bezier and polygon tracing of selected regions aided by edge detected shaping and operator directed detection of subsequent regions corresponding to the original region of interest. In this manner, the gray scale actively determines the mask and corresponding color lookup from frame to frame that is applied in a keying fashion within regions of interest.



Title: Display pixel balancing for a multi color discrete level display

Priority: AU19700017074 19700701 AU19940004404 19940311 AU1994PM04399 19940311
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Family:	Publication number	Publication date	Application number	Application date
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Probable Assignee:	CANON INC
Assignee(s):(std):	CANON INC ; CANON INF SYST RES AUSTRALIA ; CANON INFORMATION SYST RES ; CANON KK
Assignee(s):	CANON K K TOKIO TOKYO JP ; CANON INFORMATION SYSTEMS RESEARCH AUSTRALIA PTY LTD ; SILVERBROOK KIA ; NAYLOR WILLIAM CLARK JR ; HARRIS CORP ; CANON INFORMATION SYSTEMS RESEARCH AUSTRALIA PTY L ; CANON K K ; CANON KABUSHIKI KAISHA ; CANON INF SYST RES AUSTRALIA PTY LTD
Inventor(s):(std):	JNR WILLAIM CLARK NAYLOR ; JNR WILLIAM CLARK NAYLOR ; KIA SHIRUAABURUTSUKU ; KIA SHIRUBUAABURUTSUKU ; KIA SILVERBROOK ; NATLOR JNR WILLAIM CLARK ; NAYLOR JR WILLIAM CLARK ; NAYLOR WILLIAM C ; NAYLOR WILLIAM C JR ; NAYLOR WILLIAM CLARK ; NAYLOR WILLIAM CLARK JR ; SILVERBROOK KIA ; UIRIAMU KURAaku NEIRAA JIYUNIA ; UIRIAMU KURAaku NEIRAA JUNIA ; WILLAIM CLARK NAYLOR JNR ; WILLIAM CLARK NAYLOR ; WILLIAM CLARK NAYLOR JNR ; IA SILVER BURUK
Inventor(s):	SILVERBROOK KIA LEICHHARDT NEW SOUTH WALES 2040 AU ; IA SILVER BURUK/AU ; WILLAIM CLARK NATLOR JNR
Agent(s):	SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; RIDOUT AND MAYBEE LLP
Designated states:	DE ES FR GB IT NL SE
International class (IPC 8-9):	E05D11/10 E05F1/06 G02F1/133 G02F1/1333 G02F1/1335 G02F1/1343 G02F1/135 G02F1/137 G02F1/141 G09F9/30 G09F9/302 G09F9/313 G09F9/35 G09G3/00 G09G3/20 G09G3/28 G09G3/30 G09G3/36 G09G5/00 G09G5/02 G09G5/393 G09G5/395 G09G5/42 H04N3/14 H04N9/30 (Advanced/Invention); G02F1/1335 G02F1/1343 G09G3/00 G09G3/20 (Advanced/Non-invention); E05D11/00 E05F1/00 G02F1/13 G09F9/30 G09F9/313 G09F9/35 G09G3/00 G09G3/20 G09G3/28 G09G3/30 G09G3/36 G09G5/00 G09G5/02 G09G5/36 G09G5/42 H04N3/14 H04N9/12 (Core/Invention); G09G3/20 (Core/Non-invention)
International class (IPC 8-7):	E05F1/06 G02F1/133 G02F1/1333 G02F1/1335 G02F1/1343 G02F1/135 G02F1/141 G06F3/153 G09F9/30 G09F9/313 G09F9/35 G09G1/16 G09G3/00 G09G3/20 G09G3/28 G09G3/30 G09G3/36 G09G5/00 G09G5/02 G09G5/10 H04N3/14 H04N9/30
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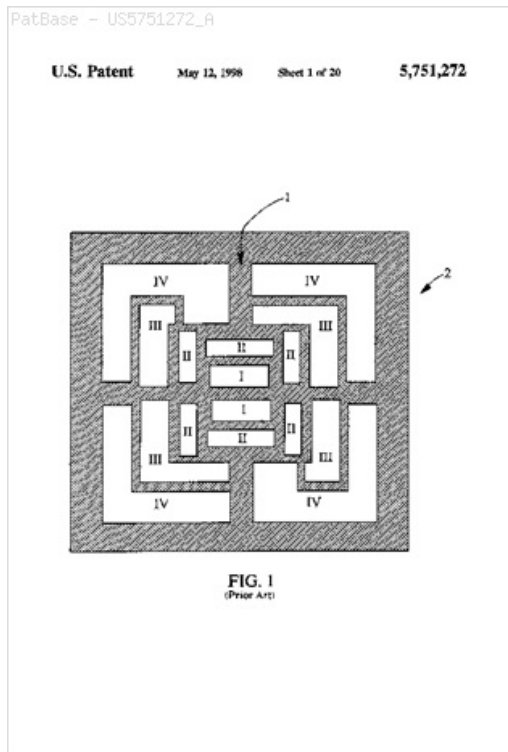
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Abstract:

Source: US5751272A [EN] A pixel **display** includes a pixel pattern containing multiple pixels each of which having multiple primary color sub-regions of illumination. These sub-regions are arranged such that they extend in a first direction substantially from one side of the pixel to the other, and in a second direction, substantially normal to the first direction, they have only a limited extent in the pixel. These sub-regions include a multiple number of illumination areas and are arranged such that the center of illumination is substantially stable with respect to movement in the first direction and is substantially constrained to movement in the second direction.



Title: APPARATUS AND METHOD FOR PRODUCING HIGH REGISTRATION PHOTO MASKS

Priority:

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Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: SAID MICRO COMPUTER INC BY SAI

Assignee(s):(std): HYATT GILBERT P ; HYATT GILBERT PETER ; SAID MICRO COMPUTER INC BY SAI ; EGYESUET IZZOLAMPA ; HYATT G

Assignee(s): HYATT G US ; SAID MICRO COMPUTER INC BY SAID BARRY T LEE RALPH ; SAID MICRO COMPUTER INC BY SAID BARRY T LEE RALPH V COLE GUNTHER W WIMMER

Inventor(s):(std): WIMMER GUNTHER W ; LEE BARRY T ; KEREKES BELA DIPL ING ; KEREKES BELA ; KEREKES B ; HYATT GILBERT PETER ; HYATT GILBERT P ; HYATT G ; HIRSCH IRVING ; COLE RALPH V

Inventor(s): HYATT G US

Agent(s): GOWLING LAFLEUR HENDERSON LLP

Designated states: AT BE CA CH DE DK ES FR GB GR IT JP KR LU NL SE

International class (IPC 8-9): B41F33/10 B41F33/16 B60R16/02 B60R16/037 F21V23/00 G01B11/26 G01J1/42 G01R15/00 G01S15/89 G01S3/80 G01S3/86 G01S7/52 G01V1/28 G02B26/02 G02F1/01 G02F1/13 G02F1/133 G03B27/04 G03B27/52 G03B9/00 G03F7/20 G03F9/00 G04G99/00 G05B1/03 G05B15/00 G05B19/18 G05B19/35 G05B19/408 G05B19/409 G05B19/4093 G05B19/414 G05D25/02 G05D3/20 G06F12/00 G06F12/02 G06F13/10 G06F13/12 G06F13/16 G06F15/00 G06F17/10 G06F17/14 G06F19/00 G06F3/00 G06F3/023 G06F3/033 G06F3/038 G06F3/14 G06F3/147 G06F3/16 G06F9/22 G06F9/46 G06J1/00 G06K9/40 G06T1/20 G06T3/00 G07G1/12 G09G3/36 G09G5/00 G09G5/18 G09G5/20 G10L15/22 G10L19/00 G11C11/406 G11C11/56 G11C17/10 G11C19/18 G11C19/28 G11C19/36 G11C27/00 G11C27/02 G11C27/04 H03H17/02 H04N3/10 H04N5/66 H04N5/74 H04N9/31 (Advanced/Invention); G03F9/00 G06F15/00 G06F3/023 G06F3/14 G06F3/147 (Core/Invention)

International class (IPC 1-7): G01J1/32 G01S9/66 G01V1/00 G01V1/28 G02F1/13 G03B19/00 G03B27/02 G03B27/04 G03B27/32 G03B27/52 G03H3/00 G05B1/01 G05B1/02 G05B15/00 G05B19/02 G05B19/18 G06F1/00 G06F11/00 G06F12/00 G06F12/02 G06F13/00 G06F15/00 G06F15/20 G06F15/31 G06F15/332 G06F15/336 G06F15/34 G06F15/40 G06F15/46 G06F17/14 G06F3/00 G06F3/02 G06F3/14 G06F3/16 G06F7/00 G06F9/06 G06F9/18 G06F9/22 G06J1/00 G06K9/00 G09G1/28 G09G3/36 G09G5/00 G11C11/00 G11C11/40 G11C13/00 G11C17/00 G11C27/00 G11C7/00 H01J61/12 H01J61/30 H04M1/00 H04N5/66 H04N5/74 H04N9/31

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European class: B60R16/02B6D B60R16/037B F21V23/00 G01S15/89D5B G01S15/89D6 G01S7/52S2B1 G02F1/01D G02F1/133D2 G03F7/20T22 G03F7/70L10D G03F7/70L2H G03F9/70D G03F9/70M G04G99/00M G05B19/35C G05B19/408 G05B19/408A G05B19/408C G05B19/409 G05B19/4093 G05B19/414 G05B19/414K G06F12/02C G06F13/12 G06F13/12B G06F13/16 G06F3/023A5 G06F3/02A5 G06F3/033Z9 G06F3/038E G06F3/147 G06J1/00 G06Q20/209 G07G1/12 G09G5/18 G09G5/20 G10L19/00 G11C11/56E G11C13/00R25D G11C16/34D G11C16/34D6 G11C19/00M6 G11C19/28C G11C19/36 G11C27/00 G11C27/02C G11C27/04 G11C7/10M5 G11C7/10M6 H03H17/02G2C L65H557/2644 S05B219/23094 S05B219/33182 S05B219/34023 S05B219/34098 S05B219/34471 S05B219/34472 S05B219/35262 S05B219/35263 S05B219/35373 S05B219/35381 S05B219/35431 S05B219/35436 S05B219/35453 S05B219/35472 S05B219/35554 S05B219/35588 S05B219/36152 S05B219/36227 S05B219/36333 S05B219/36366 S05B219/36379 S05B219/36395 S05B219/36502 S05B219/36503 S05B219/36506 S05B219/36546 S05B219/41021 S05B219/42237 S05B219/45214 S05B219/45215 S05B219/49221 S05B219/50047 S05B219/50048 S05B219/50083 S05B219/50151 S06F12/02C S11C13/04 S11C7/16 T05K999/99

US class: 250/205 257/225 257/235 315/151 318/608 318/640 332/185 34/875.1 340/701 340/765 340/784 340/794 340/870.32 341/24 341/29 342/179 345/156 345/34 345/475 345/520 345/84 345/87 345/88 348/748 348/751 348/761 348/766 349/16 349/161 349/193 349/195 349/24 349/61 350/330 354/354 354/4 355/132 355/53 355/54 355/78 355/8.6 355/86 355/95 357/24 358/230 358/231 358/236 358/241 358/254 358/3 358/302 358/60 358/61 359/48 361/183 362/294 362/373 364/107 364/130

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Abstract:

Source: US3820894A [EN] A system is provided for producing high registration photo-optical masks. A control system generates signals to a step and repeat contact printing machine that exposes many prints of the master die images on a photographic film, where these prints have a high registration characteristic. Claims, 10 Drawing Figures

Title: Electronically commutated motor and method of making same

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Probable Assignee: REGAL BELOIT ELECTRIC MOTORS INC

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Designated states: DE FR GB IT

International class (IPC 8-9): B60H1/32 D06F33/02 D06F35/00 D06F37/30 D06F37/38 D06F37/40 F23N3/08 F25B49/02 G05D23/01 G05D23/19 H02K29/00 H02K29/06 H02K29/10 H02P6/08 H02P6/14 H02P6/16 H02P6/18 (Advanced/Invention); H02K29/06 (Advanced/Non-invention); B60H1/32 D06F33/02 D06F37/30 F23N3/00 F25B49/02 G05D23/19 H02K29/00 H02K29/06 H02P6/08 H02P6/14 (Core/Invention); H02K (Subclass/Invention)

International class (IPC 1-7): B60H3/04 D06F33/02 D06F35/00 D06F37/30 D06F37/36 D06F37/38 D06F37/40 F25B1/00 F25B31/02 F25B49/00 F25D17/00 G05D23/01 G06G7/62 H02K23/00 H02K29/00 H02K29/02 H02K29/06 H02K29/12 H02M1/08 H02M7/12 H02N H02P1/02 H02P1/18 H02P5/06 H02P5/16 H02P6/00 H02P6/02 H02P6/18 H02P7/00 H02P7/28 H02P7/29

CPC: H02P6/16 H02P2209/07 H02P6/08 D06F37/304 H02K29/06 H02P6/14 Y02B40/52 Y10S388/934 H02K29/10 H02P6/182 F23N3/082 F23N2033/04 F25B49/025 G05D23/19 D06F23/04 H02P6/085 F25B2600/021 H02P6/187

European class: D06F37/30C F23N3/08B F25B49/02C G05D23/19 H02K29/06 H02K29/10 H02P6/08 H02P6/08B H02P6/14 H02P6/16 H02P6/18E R23N33/04 R25B600/021 T02P209/07 Y02B40/52

US class: 318/138 318/254 318/3 318/318 318/334 318/341 318/342 318/345R 318/400.01 318/400.03 318/400.04 318/400.08 318/400.09 318/400.1 318/400.13 318/400.17 318/400.2 318/400.21 318/400.22 318/400.27 318/400.28 318/400.29 318/400.3 318/400.31 318/400.34 318/400.37 318/400.4 318/400.41 318/431 318/439 318/471 318/599 323/235 361/33 361/90 363/124 363/41 363/81 388/811 388/816 388/934 62/180 62/186 62/227 62/228.4

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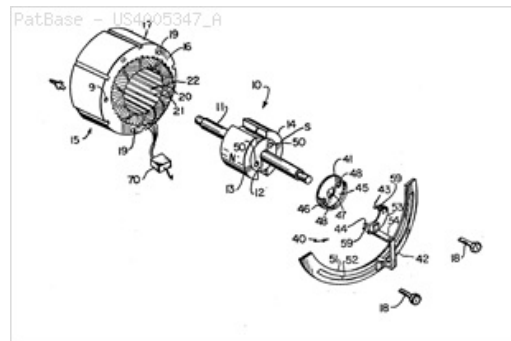
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Abstract:

Source: US4005347A [EN] A brushless DC motor is constructed with photosensitive devices for detecting rotor shaft position.

Arcuate permanent magnets on the rotor provide a DC flux field while distributed stator windings, each spanning a fixed number of slots in the armature assembly, provide mutually perpendicular magnetic fields. A logic circuit comprising NOR gates and transistor switches and drivers activated in response to signals from the shaft position sensors are utilized to control current switching in the stator windings of the motor. A light interrupting shutter mounted to the rotor cooperates with the light sensitive devices which are mounted to a supporting bracket fixed to the stator assembly in a manner to selectively preset advancement of commutation of the stator windings.



Title: Seismic data telemetering system

Priority: CA19760252003 19760507 CA19760252025 19760507 DE19762659967 19760507
 US19760664615 19760308 US19750576943 19750512 US19760664614 19760308
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Family:	Publication number	Publication date	Application number	Application date
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Probable Assignee: INPUT OUTPUT INC

Assignee(s):(std): WESTERN GEOPHYSICAL CO

Assignee(s): WESTERN GEOPHYSICAL CO AMERICA ; UESUTAN JIOFUIJIKARU CO OBU AMERIKA ; WESTERN ATLAS INT ; WESTERN ATLAS INT INC A CORP OF DE ; WESTERN GEOPHYSICAL CO OF AMERICA A CORP OF DE ; SIEMS LEE E ; WESTERN GEOPHYSICAL COMPANY OF AMERICA ; WESTERN GEOPHYSICAL COMPAGNY ; WESTERN GEOPHYSICAL CY AMERICA ; WESTERN GEOPHYSICAL CY OF AMERIC ; WESTERN GEOPHYSICAL COMPANY OF AMERICA BEVERLY HILLS CALIF US ; WESTERN GEOPHYSICAL COMPANY OF AMERICA TE BEVERLY HILLS CALIFORNIE VER ST V AM ; WESTERN GEOPHYSICAL CO OF AMERICA TE BEVERLY HILLS CALIFORNIE VER ST V AM ; I O EXPLORATION PRODUCTS (USA) INC ; I O EXPLORATION PRODUCTS INC ; INPUT OUTPUT INC ; MORGAN PAUL M ; MIODUSKI GEORGE T ; SAVIT CARL H ; WESTERN GEOPHYSICAL CO OF AMERICA

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Agent(s): SF; MACRAE AND CO

International class (IPC 8-9): G01D3/028 G01D5/12 G01J1/20 G01J1/22 G01V1/16 G01V1/20 G01V1/22 G01V1/24 G01V1/28 G01V1/34 G01V1/36 G01V1/38 G08C15/00 G08C15/06 G08C19/00 H03F1/34 H03G3/20 H03H11/04 H03H11/12 H03H19/00 H03H7/01 H03H7/06 H04J3/02 H04J3/04 H04J3/10 H04L25/49 H04Q11/04 H04Q9/00 (Advanced/Invention); G01V1/28 H04Q9/00 (Advanced/Non-invention); G01D3/028 G01D5/12 G01V1/00 G01V1/16 G01V1/22 G01V1/28 G01V1/38 G08C15/00 G08C19/00 H03G3/20 H03H11/04 H03H19/00 H03H7/01 H04J3/02 H04J3/04 H04L25/49 H04Q9/00 (Core/Invention); G01V1/28 (Core/Non-invention); G01V G06F H04B (Subclass/Invention)

International class (IPC 1-7): G01D5/12 G01J1/20 G01J1/22 G01S3/80 G01V1/00 G01V1/16 G01V1/20 G01V1/22 G01V1/24 G01V1/28 G01V1/34 G01V1/36 G01V1/38 G06G7/48 G08C15/00 G08C15/06 H03F1/34 H03F21/00 H03G3/00 H03G3/20 H03H11/00 H03H11/04 H03H11/12 H03H19/00 H03H7/01 H03H7/02 H03H7/06 H03K13/02 H03K13/18 H03K17/56 H04J3/02 H04J3/04 H04J3/10 H04L25/49 H04L25/52 H04L5/00 H04Q11/04

CPC: H03G3/30 G01V1/24 G01V1/20 H03G3/3026 G01D5/12 G01V1/16 G01V1/22 G01V1/245 G01V1/38 G08C15/00 H03H11/04 H03H19/002 H03H19/008 H04J3/04 H04J3/10 H04L25/4904 Y02A90/36

European class: G01D5/12 G01V1/16 G01V1/20 G01V1/22 G01V1/24C G01V1/38 G08C15/00 H03G3/30B8 H03H11/04 H03H11/12C H03H19/00A H03H19/00D H04J3/04 H04J3/10 H04L25/49C

US class: 179/15BL 327/407 327/99 330/144 330/282 330/86 340/15.5G 340/15.5TS 340/853.7 340/870.04 340/870.13 340/870.38 340/870.41 367/135 367/15 367/45 367/52 367/6 367/60 367/63 367/67 367/74 367/78 367/79 370/439 370/450 370/517 370/532

[Classification Explorer](#)

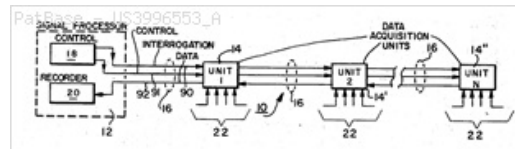
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Forward Citations: WO9960719, WO16106253, WO16089892, WO13177007, WO12006712, WO09062286, WO09062286, WO08095161, WO08095159, WO03038475, WO03027711, WO0003268, WO0003268, US9874647, US9817140, US9733370, US9596669, US9571908, US9507043, US9500757, US9470809, US9459944, US9459360, US9316754, US9304219, US9239399, US9239317, US9121969, US8982810, US8963564, US8924158, US8885441, US8879356, US8873336, US8873335, US8867310, US8867309, US8867307, US8830790, US8681584, US8675685, US8660798, US8644111, US8605547, US8577297, US8553490, US8536988, US8477561, US8442588, US8391103, US8274290, US8212568, US8183863, US8170802, US8120507, US8077740, US8059010, US8030937, US7983847, US7948827, US7932834, US7894301, US7813702, US7813222, US7766557, US7668044, US7660192, US7535795, US7490428, US7193931, US7176589, US7173542, US7113448, US7113448, US6987463, US6980688, US6901421, US6684160, US6678403, US6671222, US6614291, US6603477, US6580661, US6381283, US6327537, US6115325, US6069841, US6055212, US6021091, US6009042, US5943293, US5822273, US5757219, US5631874, US5627798, US5614893, US5602499, US5600270, US5592437, US5583824, US5563847, US5523983, US5521881, US5488866, US5481502, US5450369, US5412621, US5408442, US5400298, US5367499, US5262681, US5253219, US5243469, US5148406, US5058080, US5043949, US5025454, US4994316, US4992993, US4992992, US4967400, US4939747, US4932004, US4908802, US4796025, US4787069, US4744064, US4725950, US4704584, US4703451, US4693335, US4689774, US4686660, US4663754, US4663744, US4658364, US4654860, US4654660, US4644506, US4628494, US4628493, US4622519, US4599712, US4594696, US4590472, US4574358, US4550084, US4528650, US4519052, US4510585, US4509170, US4506263, US4497045, US4446106, US4399416, US4398271, US4390974, US4378527, US4361839, US4357577, US4355310, US4351036, US4334185, US4320468, US4319347, US4313195, US4313192, US4312051, US4309763, US4308598, US4302835, US4296484, US4285052, US4260211, US4257098, US4241330, US4231015, US4203090, US4196417, US4194163, US4180103, US4158819, US4156106, US4121055, US4117448, US2015121124, US2015103680, US2015063063, US2014254315, US2013064038, US2012058737, US2012035854, US2011316564, US2011205846, US2011164624, US2011158049, US2011081874, US2010245119, US2010231225, US2010166227, US2010148787, US2010100330, US2010097886, US2009309591, US2009258844, US2009122641, US2009072831, US2008285379, US2008252296, US2008246627, US2008224887, US2008219626, US2007225944, US2007189118, US2007139217, US2007132605, US2007107938, US2007069641, US2006256654, US2006239117, US2006212226, US2006062080, US2006013065, US2005246137, US2005152221, US2004252585, US2004139801, US2004008175, US2003182336, US2003117025, US2002154027,

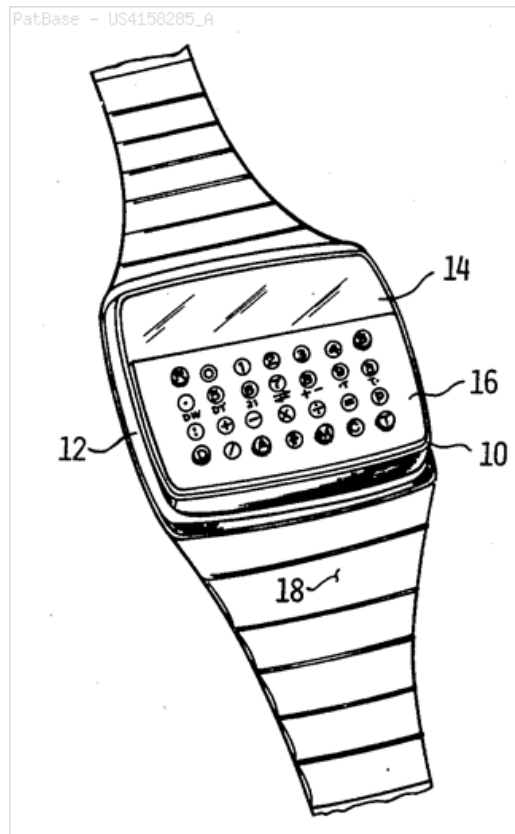
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Abstract:

Source: US3996553A [EN] A plurality of data acquisition units are **connected** to a central signal processor through a common telemeter link. The telemeter link includes a data channel, an interrogation channel and a control channel. The central signal processor sends an interrogation signal through the interrogation channel to the data acquisition units. As each data acquisition unit recognizes the interrogation signal, it transmits its acquired data back to the central signal processor through the data channel. Any selected data acquisition unit, when it receives a control signal through the control channel at the same time that it receives an interrogation signal through the interrogation channel, can be caused to perform a function different from all other units. The signal propagation velocity through the control channel is different from the signal propagation velocity through the interrogation channel. One of the two signals may be transmitted through the faster channel at a selected time later than the other of the two signals is transmitted through the slower channel. The selected time difference between the transmission of the two signals is proportional to the ratio of signal propagation delay difference between channels. Accordingly the signal through the faster channel will overtake and intercept the signal propagating through the slower channel, at the selected data acquisition unit. Each data acquisition unit may have two or more input channels. Each input channel is **connected** in turn to the data channel through a stepping switch or multiplexer. The interrogation signal may exist in one of two or more states. In the first state, the interrogation signal resets the multiplexer. In the second state, the interrogation signal advances the multiplexer to the next input channel in sequence.



Title:	Interactive wristwatch calculator																																																																																			
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Probable Assignee:	HEWLETT PACKARD CO																																																																																			
Assignee(s):(std):	HEWLETT PACKARD CO ; HEWLETT PACKARD YOKOGAWA																																																																																			
Assignee(s):	YOKOGAWA HYUURETSUTO PATSUKAADO KK ; YOKOGAWA HIYUURETSUTO PATSUKAADO KK ; MARION ANDRE F ; OSBORNE THOMAS E ; HEWLETT PACKARD CO PALO ALTO CALIF US ; HEWLETT PACKARD CO PALO ALTO CALIF V ST A ; HEWLETT PACKARD COMPANY ; HEWLETT PACKARD CY ; HEINSEN EDWARD A																																																																																			
Inventor(s):(std):	ANDORE EFU MARION ; HEINSEN E A ; HEINSEN EDWARD A ; MARION A F ; MARION ANDRE F ; OSBORNE T E ; OSBORNE THOMAS E ; TOOMASU II OZUBOON ; EDOWAADO EE HEINSEN																																																																																			
Inventor(s):	EDWARD A HEINSEN ; F MARION ANDRE ; A HEINSEN EDWARD ; T E OSBORNE ; E A HEINSEN ; A F MARION ; OSBORNE THOMAS E SAN FRANCISCO ; OSBORNE THOMAS E SAN FRANCISCO CALIF US ; THOMAS E OSBORNE ; MARION ANDRE F PALO ALTO ; MARION ANDRE F PALO ALTO CALIF US ; HEINSEN EDWARD A CUPERTINO ; HEINSEN EDWARD A CUPERTINO CALIF US ; ANDRE F MARION ; BERNSEN EA MARION A F AND OSBORNE TE ; E OSBORNE THOMAS																																																																																			
Agent(s):	SW; SIM AND MCBURNEY																																																																																			
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Title:

Computer controlled distribution apparatus for distributing transactions to and from controlled machines tools

Priority:

CA19770273396 19770308 US19760673011 19760402 US19760673161 19760402

Family:

Publication number	Publication date	Application number	Application date
CA1088179 A1	19801021	CA19770273396	19770308
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IT1113539 A	19860120	IT19770021895	19770331
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Probable Assignee:

IBM

Assignee(s):(std):

IBM

Assignee(s):

IBM CORP ; INT BUSINESS MACHINES CORP ; INT BUSINESS MACHINES CORP ARMONK N Y US ; INTAANASHONARU BIJINESU MASHIINZU CORP ; PACE JOHN C ; FIORENZA ROBERT M ; FLEMING ALAN J ; GERLACH RALPH J ; HOLMSTROM LARRY W

Inventor(s):(std):

FIORENZA ROBERT ; FIORENZA ROBERT M ; FLEMING ALAN J ; FLEMING ALAN JAMES ; GERLACH RALPH J ; GERLACH RALPH JACK ; HOLMSTROM LARRY W ; HOLMSTROM LARRY WOOLLEY ; RARII DABURIYUU HORUMUSUTORAMU ; RARUFU JIEI GAARATSUKU ; ROBAATO EMU FUIORENZA ; JIYON SHII PEISU ; PACE JOHN C ; PACE JOHN CARLO ; ARAN JIEI FUREMINGU

Inventor(s):

CARLO PACE JOHN ; PACE JOHN CARLO WAPPINGERS FALLS N Y ; PACE JOHN CARLO WAPPINGERS FALLS N Y US ; ROBERT M FIORENZA ALAN J FLEMING RALPH J GERLACH L ; ROBERT M FIORENZA ALAN J FLEMING RALPH J GERLACH LARRY W HOLMSTROM ET JOHN C PACE ; WOOLLEY HOLMSTROM LARRY ; RARII DABURYUU HORUMUSUTORAMU ; ARAN JEI FUREMINGU ; HOLMSTROM LARRY WOOLLEY BOCA RATON FLA ; HOLMSTROM LARRY WOOLLEY BOCA RATON FLA US ; JACK GERLACH RALPH ; JAMES FLEMING ALAN ; GERLACH RALPH JACK AUSTIN TEX ; GERLACH RALPH JACK AUSTIN TEX US ; FLEMING ALAN JAMES PUGHQUAG N Y ; FLEMING ALAN JAMES PUGHQUAG N Y US ; FIORENZA ROBERT SHELBURNE VT ; FIORENZA ROBERT SHELBURNE VT US

Agent(s):

GAMMIE ALEXANDER P

International class (IPC 8-9):

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CPC:

G05B19/4147 G05B2219/34215

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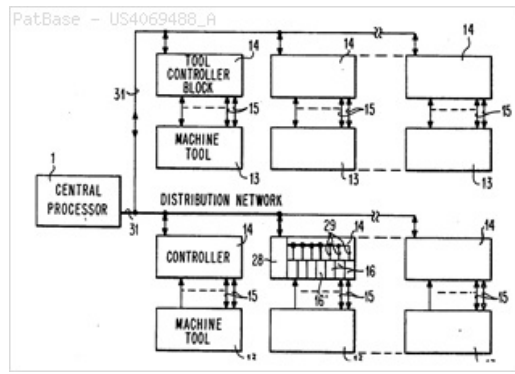
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Forward Citations:

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Abstract:

Source: US4069488A [EN] A system for controlling a plurality of machine tools in which the central processor communicates data transactions to and from a plurality of tool controllers, each of which is operatively associated with a machine tool. Each of the controllers comprises at least one machine tool control unit which is adapted to provide a digital output to the associated machine tool for controlling a particular tool function and/or for receiving from the machine tool a digital input indicative of a particular tool condition. The central processor has **connected** thereto a main multiple-channel data bus for conducting data transactions by transferring parallel bits of data to and from the processor. The system also includes a plurality of multiple-channel unit data buses, each of which is **connected** to one of the tool control units.



Title: Angle sensing tool for applying torque

Priority:

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Probable Assignee: ROCKWELL INT CORP

Assignee(s):(std): ROCKWELL INT CORP ; ROCKWELL INTERN CORP

Assignee(s): UNIED STATES OF AMERICA AS REPRESENTED BY NAVY ; UNIED STATES OF AMERICA REPRESENTED BY NAVY AS ; ROCKWELL INT CORP PITTSBURGH PA US ; ESHGHY SIAVASH ; HALL GEORGE D ; HAMMERLE DENNIS R

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Agent(s): HA; SMART AND BIGGAR

International class (IPC 8-9): B23P19/06 B25B23/14 B25B23/145 B25B23/151 G01L5/24 G05D17/00 G05D17/02 (Advanced/Invention); B23P19/06 B25B23/14 G01L5/24 G05D17/00 (Advanced/Non-invention); B23P19/06 B25B23/14 G01L5/24 G05D17/00 (Core/Invention)

International class (IPC 1-7): B23P19/00 B23P19/06 B23Q5/00 B23Q5/027 B25B21/00 B25B23/14 B25B23/145 B25B23/147 B25B23/151 B25B28/00 B25B29/02 F02D F16B31/02 G01L3/22 G01L5/24 G05B15/02 G05D15/01 G05D17/00 G05D17/02

CPC: Y10T29/49766 Y10T29/53687 B25B23/1456 B23P19/066 B25B23/14 Y10T29/49767

European class: B23P19/06C1 B25B23/14 B25B23/145C

US class: 173/12 173/183 29/240 29/407 29/407.02 29/407.03 702/42 73/761 73/862.23 73/862.24 81/470

[Classification Explorer](#)

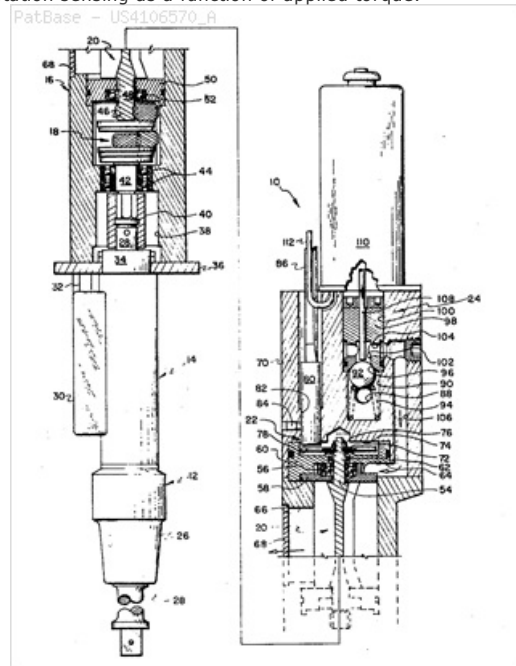
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Abstract:

Source: US4106570A [EN] There is disclosed an air powered tool for applying torque to threaded fasteners and the like. The tool comprises a motor, a gear reducer and a driver whereby the motor turns at a higher rate than the driver. In order to provide better resolution of angle sensings, an angle sensor is arranged to determine rotation of the motor rather than of the driver. Because the fastener, driver, gear reducer and motor tend to torque up thereby producing an exaggerated reading for the angle of advance of the fastener, means are provided to compensate for the rotation sensing as a function of applied torque.



Title: Frequency response equalizer

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Family:	Publication number	Publication date	Application number	Application date
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	US4514769 A	19850430	US19790108881	19791231

Probable Assignee: AMPEX CORP**Assignee(s):(std):** AMPEX ; AMPEX CORP ; KNIGHT HOWARD W ; ENGBERG EDWIN W**Assignee(s):** AMPEX SYSTEMS CORP ; AMPEX SYSTEMS A DE CORP CORP ; AMPEX CORP 94063 REDWOOD CITY CALIF US ; AMPEX CORP REDWOOD CITY CALIF US**Inventor(s):(std):** BEAULIER DANIEL A ; DANIEL A BEAULIER ; DANIERU EI BIYUURIAA ; DIERMANN JOACHIM P ; DIERMANN JOACHIM P PALO ALTO ; EDOUIN DABURIYUU ENGUBERUGU ; EDOWAADO DABURIYUU NAITO ; JERRY W MILLER ; JIERII DABURIYUU MIRAA ; JIYOACHIMU PII DEERUMAN ; JIYUNAIDO SHIIKU ; KENNESU RUUSU ; KNIGHT HOWARD W ; LOUTH KENNETH ; LUIGI C GALLO ; MACKENZIE

ROBERT P ; MILLER JERRY W ; ENGBERG EDWIN W ; GALLO LUIGI C ; RITCHEY JR THOMAS W ; TOOMASU DABURIYUU RITSU ; ROBAATO PII MATSUKENJII ; ROBERT P MACKENZIE ; RUIJI SHII GARURO ; RUIJII SHII GARURO ; SHEIKH JUNAID ; RITCHEY JUN THOMAS W ; TOOMASU DABURIYUU RITSUCHIERII

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International class (IPC 8-9): G11B17/00 G11B20/10 G11B27/034 G11B27/10 G11B5/035 H04N5/14 H04N5/16 H04N5/18 H04N5/781 H04N5/926 H04N5/932 H04N5/935 H04N5/956 H04N7/26 H04N9/72 H04N9/78 H04N9/79 H04N9/793 H04N9/797 H04N9/804 H04N9/808 H04N9/815 H04N9/87 H04N9/873 H04N9/896 (Advanced/Invention); G11B17/00 G11B20/10 G11B27/031 G11B27/10 G11B5/035 H04N5/14 H04N5/16 H04N5/18 H04N5/781 H04N5/926 H04N5/935 H04N5/95 H04N7/26 H04N9/72 H04N9/78 H04N9/79 H04N9/793 H04N9/797 H04N9/804 H04N9/808 H04N9/81 H04N9/87 H04N9/89 (Core/Invention)

International class (IPC 1-7): G06F3/00 G06K15/20 G11B15/04 G11B20/10 G11B5/012 G11B5/035 G11B5/09 G11B5/45 H03B3/04 H03L7/00 H03L7/08 H03M1/00 H04B1/04 H04L1/00 H04L7/02 H04N11/00 H04N5/06 H04N5/16 H04N5/78 H04N5/781 H04N5/785 H04N5/79 H04N5/795 H04N5/91 H04N5/92 H04N5/93 H04N5/95 H04N7/13 H04N9/00 H04N9/02 H04N9/32 H04N9/44 H04N9/491 H04N9/493 H04N9/535 H04N9/72 H04N9/80 H04N9/87

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European class: G11B17/00A G11B20/10A3 G11B20/10A6D G11B27/034 G11B27/10A1 G11B5/035 H04N5/18 H04N5/18B H04N5/781 H04N5/926 H04N5/932 H04N5/935 H04N9/72 H04N9/78 H04N9/79 H04N9/793 H04N9/793F H04N9/808 H04N9/87 H04N9/873 H04N9/87R H04N9/896 S11B220/20

US class: 178/68 178/69.1 327/156 327/94 331/20 331/25 348/476 348/486 348/497 348/500 348/505 348/509 348/521 348/537 348/539 348/630 348/665 348/692 348/696 358/13 358/310 358/34 358/4 358/8 360/10 360/22 360/41 360/60 360/63 360/65 360/78.04 375/229 375/239 375/359 375/365 375/376 386/1 386/12 386/125 386/13 386/20 386/200 386/201 386/202 386/203 386/204 386/207 386/209 386/21 386/216 386/222 386/24 386/245 386/25 386/252 386/263 386/300 386/303 386/306 386/307 386/327 386/353 386/40 386/86 386/92 386/94 386/E05.031 386/E05.032 386/E05.042 386/E09.001 386/E09.002 386/E09.003 386/E09.019 386/E09.05 386/E09.051 386/E09.002 386/E09.003 386/E09.019 386/E09.05 386/E09.062 386/E5.031 386/E5.032 386/E5.042 386/E9.001 386/E9.002 386/E9.003 386/E9.019 386/E9.05 386/E9.051 386/E9.055 386/E9.062 714/820 G9B/017.001 G9B/020.013 G9B/027.012 G9B/17.001 G9B/20.013 G9B/27.012

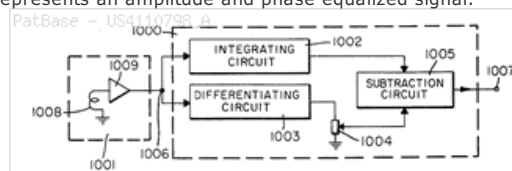
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Abstract:

Source: US4110798A [EN] A frequency response equalizer includes a parallel combination of a low-pass integrating circuit and a high-pass differentiating circuit. Both circuits receive an input signal from a reproduce head followed by a preamplifier. Each circuit provides a 90 DEG phase shift with respect to the input signal, equal in magnitude and opposite in sense. A subtraction circuit coupled to the respective outputs of both the integrating and differentiating circuit provides a difference signal of the respective output signals of both circuits. The resulting difference signal represents an amplitude and phase equalized signal.



Title: PARAMETER INTERPOLATOR FOR SPEECH SYNTHESIS CIRCUIT

Priority:

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Family:	Publication number	Publication date	Application number	Application date
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ZA7803305 A	19800130	ZA19780003305	19780608

Probable Assignee: TEXAS INSTRUMENTS INC

Assignee(s):(std): TEXAS INSTRUMENTS INC ; TEXAS INSTR INC SOCIETA DELLO

Assignee(s): TEXAS INSTRUMENTS INC SOC DELLO STATO DEL DELAWAR ; TEXAS INSTRUMENTS INC SO CIETA DELLO STA ; TEXAS INSTRUMENTS INC SOC DELLO STATO DEL DELAWARE ; TEXAS INSTRUMENTS INC DALLAS TEX US ; TEXAS INSTRUMENTS INC SO CIETA DELLO STATO DEL DELAWARE ; TEXAS INSTRUMENTS INC TE DALLAS TEXAS VER ST V AM ; TEXAS INSTRUMENTS INC US ; WIGGINS RICHARD H JR ; TEXAS INSTRUMENTS INC TE DALLAS TEXAS VERSTVAM ; BRANTINGHAM GEORGE L ; TEKSAS INSTR INKORPOREJTED FA ; TEKSAS INSTR INKORPOREJTED FIRMA ; TEXAS INSTR INC

Inventor(s):(std): BRANTINGHAM G L ; WIGGINS JUN RICHARD H ; WIGGINS R H ; WIGGINS RICHARD H JUN ; WIGGINS RICHARD H JR ; WIGGINS RICHARD H ; WIGGINS JR R H ; WIGGINGS RICHARD H ; WICCINS RICHARD H JR ; RICHIAADO ETSUCHI UIGINZU JIY ; RICHIAADO EICHI UIGINSU JIYUN ; JIYOOJI ERU BURANTEINGAMU ; JIYOOJI ERU BURANCHINGAMU ; JIEEMUSU ETSUCHI MUUA ; POORU ESU BURIIDORABU ; MLADSHIJ RICHARD KH VIGGINS ; WIGGINS R ; BRANTINGHAM G ; WIGGINS JR RICHARD H ; RICHARD H WIGGINS JR ; PAUL S BREEDLOVE ; MOORE JAMES H ; MOORE J ; JAMES H MOORE ; GEORGE L BRANTINGHAM ; BREEDLOVE PAUL S ; BREEDLOVE P ; BRANTINGHAM GEORGE L ; BRANTINGEM DZHORDZH L

Inventor(s): RICHARD KH VIGGINS MLADSHIJ US ; DZHORDZH L BRANTINGEM US ; JOOJI ERU BURANCHINGAMU ; RICHAAADO EICHI UIGINSU JUNIA ; L BRANTINGHAM GEORGE ; JOOJI ERU BURANTEINGAMU ; MOORE JAMES H LUBBOCK TEX US ; JEEMUSU ETSUCHI MUUA ; HOORU ESU BURIIDORABU ; H WIGGINS JUN RICHARD ; H WIGGINS JUN ; GL BRANTINGHAM ; GEORGE LBRANTINGHAM ; G L BRANTINGHAM ; DZHORDZH LBRANTINGEM US ; RICHARD KHVIGGINS MLADSHIJ US ; RICHARD HWIGGINS JR ; RICHARD H WIGGINS JUN ; RICHAAADO ETSUCHI UIGINZU JUNIA ; RH WIGGINS ; R H WIGGINS ; WIGGINS JUN ; WIGGINS JR RICHARD H DALLAS TEX US ; WIGGINS RICHARD H US ; BRANTINGHAM GEORGE L US ; GEORGE L BRANTINGHAM AND RICHARD H WIGGINS JR ; H MOORE JAMES ; R H WIGGINS JR ; RICHARD H WIGGINGS ; RICHARD H WIGGINS ; S BREEDLOVE PAUL

Agent(s): CO; KIRBY EADES GALE BAKER; AE MULFORD

International class (IPC 8-9): A63F9/18 G06F17/10 G09B5/04 G09B5/06 G09B7/02 G09B7/04 G10L11/00 G10L13/00 G10L13/02 G10L13/04 G10L13/047 G10L13/08 G10L19/00 G10L19/02 G10L19/04 G10L19/06 G10L19/14 H01L21/822 H01L27/04 H03H17/02 H03H17/04 H03M7/42 H04B1/66 (Advanced/Invention); G10L19/06 (Advanced/Non-invention); A63F9/18 G09B5/00 G09B7/00 G10L11/00 G10L13/00 G10L19/00 H01L21/70 H01L27/04 H03H17/04 H03M7/42 H04B1/66 (Core/Invention)

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CPC: H03M7/42 H04B1/66 G09B7/04 G10L13/08 H03H17/0285 G10L13/047 G10L19/06 H03H17/04 G10L19/00

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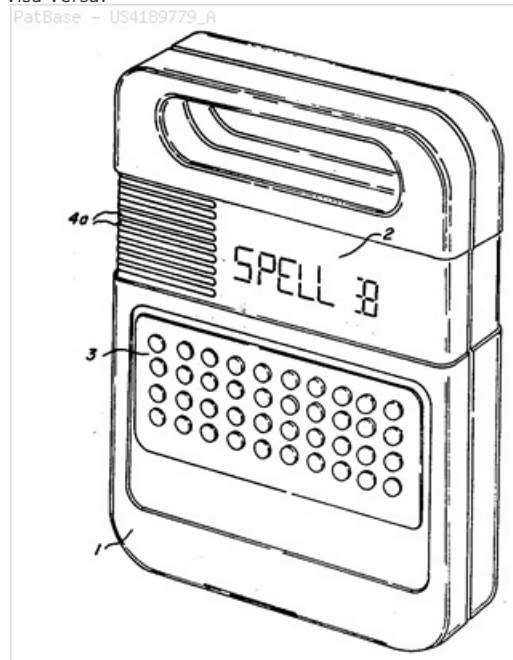
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Forward Citations: WO9902232, WO9850908, WO9424663, WO8402995, WO8302346, WO8103728, USRE41130, USRE36028, USD561901, USD447179, US8615315, US8380508, US8214064, US8175727, US8170700, US8116890, US8055980, US7941090, US7558727, US7402042, US7286993, US7257528, US7233898, US7203455, US7065417, US7029283, US6905391, US6400310, US6377925, US6256609, US6141642, US6085162, US6041215, US6018709, US5943653, US5940791, US5850628, US5848390, US5842172, US5806037, US5803748, US5764560, US5634085, US5504835, US5429513, US5353378, US5255925, US5231603, US5220946, US5204934, US5188533, US5178545, US5177800, US5133560, US5125866, US5100329, US5067158, US5030101, US5021961, US5005204, US4984276, US4959866, US4959017, US4946391, US4926355, US4908867, US4908845, US4884230, US4864620, US4799678, US4796216, US4785420, US4769846, US4749353, US4740906, US4716537, US4703505, US4701955, US4701954, US4700323, US4695970, US4686644, US4685135, US4675840, US4661915, US4658424, US4639877, US4620286, US4611305, US4602152, US4599693, US4599692, US4593367, US4588383, US4569019, US4554658, US4549867, US4541111, US4525148, US4520502, US4520499, US4519606, US4509137, US4495647, US4489396, US4481584, US4479124, US4468813, US4464118, US4462080, US4443859, US4441201, US4439161, US4438932, US4435832, US4428052, US4425099, US4424415, US4421487, US4415153, US4411628, US4403965, US4401855, US4398262, US4398059, US4394018, US4389539,

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Abstract:

Source: US4189779A [EN] Disclosed is a parameter interpolator for a speech synthesis circuit. Using a parameter interpolator permits the data rate to the speech synthesis circuit to be lowered inasmuch as the incoming speech data is used to slowly charge the data previously inputted to the values of the incoming data. The speech synthesis circuit includes an input circuit for receiving the target values of the speech data and a memory for stored interpolated values of the speech data. The interpolator includes a circuit coupled to the input circuit and the memory which calculates the difference between the target values and the stored values. Another circuit is used to add a portion of the difference to the values stored in the memory; the particular portion of the difference is equal to $1/2N$ where $N=0, 1, 2...$ Further, the interpolator is arranged to inhibit the normal interpolation upon certain conditions, such as changes from voiced speech to unvoiced speech, and visa versa.



Title:Reproduction machine using fiber optics communication system

Priority:

CA19780309794 19780822CA19780309826 19780822GB19780025027 19780531

US19770829011 19770830US19770829012 19770830US19770829013 19770830

US19790034872 19790430US19790023571 19790326US19770829014 19770830

US19770829015 19770830

Family:	Publication number	Publication date	Application number	Application date
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	US4283773 A	19810811	US19790034872	19790430
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Probable Assignee:XEROX CORP

Assignee(s):(std):GILLETT KENNETH ; HOLT CHARLES P ; LING ANDREW T ; XEROX CORP ; MALINICH RICHARD M ; NELSON FRANK M ; DONOHUE JAMES J

Assignee(s):DONOHUE JAMES M ; DAUGHTON JOHN W ; XEROX TE ROCHESTER NEW YORK VER ST V AM CORP ; XEROX TE ROCHESTER NEW YORK VERSTVAM CORP

Inventor(s):(std):ANDORIYUU TEII RINGU ; CHIYAARUZU PII HORUTO ; DAUGHTON JOHN W ; DONOHUE JAMES J ; DONOHUE JAMES M ; FURANKU EMU NERUSON ; GILLETT KENNETH ; HOLT CHARLES P ; JIEEMUSU EMU DONOHUYUU ; JIYON DABURIYU DOOTON ; KENESU JIRETSUTO ; LING ANDREW T ; MALINICH RICHARD M ; NELSON FRANK ; NELSON FRANK M ; RICHIYAADO EMU MARINITSUHI ; SUCHIIBUN PII UIRUKUZEKU ; WILCZEK STEPHEN P

Inventor(s):T LING ANDREW ; W DAUGHTON JOHN ; P HOLT CHARLES ; P WILCZEK STEPHEN ; M DONOHUE JAMES ; M MALINICH RICHARD ; M NELSON FRANK

Agent(s):GOWLING LAFLEUR HENDERSON LLP

International class (IPC 8-9):G03G15/00 G03G15/041 G03G15/22 G03G21/00 G03G21/14 G05B11/01 G05B15/02 G05B19/042 G05B19/05 G06F13/00 G06F13/12 G06F13/22 G06F13/24 G06F15/16 G06F9/22 (Advanced/Invention); G03G15/00 G03G15/041 G03G21/00 G03G21/14 G05B15/02 G05B19/04 G05B19/05 G06F13/00 (Core/Invention)

International class (IPC 1-7):G03G15/00 G03G15/22 G03G21/00 G05B11/01 G05B15/02 G06F15/20 G06F15/46 G06F3/00 G06F3/04 G06F9/06 G06F9/22 H04B9/00

CPC:G03G21/14 G05B19/0423 G05B19/054 G05B2219/2214 G05B2219/25178 G05B2219/25197 G03G15/50 G03G15/22 G06F13/24 G05B19/0421 G06F13/22

European class:G03G15/22 G03G15/50 G03G21/14 G05B19/042M G05B19/042N G05B19/05N G06F13/22 G06F13/24 S05B219/2214 S05B219/25178 S05B219/25197

US class:355/14C 355/14R 364/900 399/77 399/86 700/2 700/3 709/208 710/21 710/29 710/3 710/305

[Classification Explorer](#)

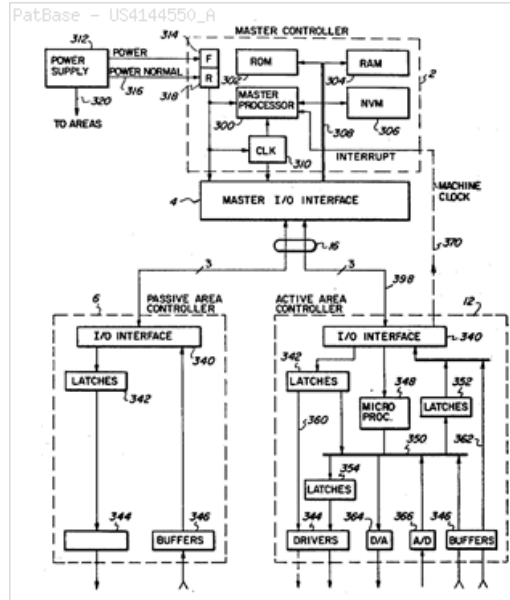
Cited documents:US4096566 A, US4071911 A, US4063083 A, US4062061 A, US4058850 A, US4058711 A, US4054380 A, US4041471 A, US4035072 A, US4034354 A, US4027152 A, US4025905 A, US4016549 A, US4000943 A, US3968487 A, US3963345 A, US3953727 A, US3940210 A, US3898373 A, US3877413 A, US3876106 A, US3840738 A, US3829209 A, US3812471 A, US3810101 A, US3690760 A, DE2535952 A1,

Forward Citations:WO9716771, WO9207312, WO8501007, WO0055718, US9869985, US9176687, US8842473, US8772467, US8724190, US8537440, US8508773, US8494412, US8416096, US8389212, US8313940, US8212683, US8114589, US8042284, US7984195, US7974124, US7947486, US7858034, US7857957, US7768841, US7765017, US7760556, US7751342, US7704726, US7601493, US7586801, US7586793, US7582421, US7500669, US7425308, US7417753, US7328399, US7314708, US7314542, US7241419, US7203728, US7172896, US7172864, US7153955, US7101661, US7080274, US6985388, US6925349, US6898467, US6821729, US6726880, US6582660, US6540961, US6518022, US6403367, US6331274, US6315953, US6309602, US6308197, US6286363, US6282383, US6272529, US6254827, US6245508, US6225059, US6223089, US6138054, US6125305, US6122462, US6112035, US6068818, US6064915, US6051380, US6018781, US6009284, US5948111, US5894416, US5822550, US5812747, US5748483, US5687393, US5682548, US5673190, US5603060, US5603059, US5588636, US5581335, US5528375, US5521710, US5513017, US5511154, US5493364, US5488454, US5459552, US5455688, US5450541, US5448338, US5444846, US5423005, US5420667, US5404536, US5404356, US5404288, US5369768, US5359391, US5333286, US5327545, US5309558, US5293196, US5243518, US5243377, US5214772, US5206953, US5184179, US5175926, US5168307, US5157595, US5142675, US5127057, US5125084, US5077656, US5077582, US5069522, US5045998, US5034780, US5023779, US5007013, US5003346, US4999672, US4980814, US4970544, US4961090, US4896288, US4881101, US4873431, US4870644, US4857960, US4847756, US4841450, US4841437, US4831582, US4819164, US4819149, US4817177, US4811052, US4800521, US4792980, US4755996, US4744022, US4737907, US4698772, US4697232, US4691384, US4689755, US4689739, US4672570, US4616314, US4608689, US4608661, US4589093, US4586151, US4583834, US4580232, US4579444, US4578764, US4570215, US4569585, US4556310, US4552450, US4550382, US4532584, US4530063, US4526309, US4521847, US4514846, US4509851, US4497569, US4497037, US4495594, US4485949, US4475156, US4429866, US4427288, US4420247, US4416534, US4405951, US4391505, US4391504, US4390966, US4375329, US4306288, US4251874, US2016349727, US2012287486, US2012251148, US2011141512, US2011133945, US2010329007, US2010259797, US2010253531, US2009244987, US2009061546, US2008266950, US2008210769, US2008203502, US2008181037, US2008022017, US2007257423, US2007178516, US2006167567, US2006143306, US2006065531, US2005200882, US2005135705, US2004190347, US2004122738, US2004086917, US2004077074, US2004059965, US2003190632, US2003114938, US2003073122,

US2003059929, US2003041274, US2003039997, US2002155586, US2002119484, US2002069214, US2002048462, US2002028503, US2001049562, NL1027672, NL1027671, JP61046962, JP58150981, JP58007651, JP57064749, JP4211277, GB2278935, GB2278935, GB2211788, GB2211788, GB2116749, FR2692697, FR2667959, EP2690503, EP1666999, EP1666998, EP0788043, EP0512722, EP0508185, EP0461122, EP0419811, EP0302364, EP0302364, EP0216484, EP0196677, EP0196677, EP0182382, EP0182382, EP0180988, EP0104887, EP0104859, EP0104090, EP0103851, EP0079222, EP0071777, DE3915024, DE3823553, DE3626818, DE3244848, DE3049339, DE2852060, DE19631747, CN103546655, CN103546655,

Abstract:

Source: US4144550A [EN] A reproduction machine having a plurality of operating stations and a plurality of devices for controlling operational tasks of said operating stations comprising a master controller having an arithmetic and logic unit for controlling the devices in accordance with sensed operational parameters and a stored operation program and **interface** means **connected** in a communication path between the master controller and the devices. The **interface** means comprises a fiber-optic communication path for isolating the master controller from electrical noise and transients of the devices.



Title: SYSTEMS, APPARATUS AND METHODS FOR MEASURING WHILE DRILLING

Priority:

AU19780041344	19781103	AU19800061120	19800806	AU19830014337	19830506
AU19830014338	19830506	AU19830014335	19830506	AU19830014336	19830506
CA19800358482	19800818	CA19820401517	19820422	CA19780314590	19781027
CA19820401516	19820422	CA19800461398	19800818	CA19780401516	19781027
CA19780426572	19781027	CA19780447663	19781027	GB19830030719	19831117
GB19800026573	19800814	CA19830426572	19830422	GB19780047078	19781204
GB19810012794	19810428	GB19810012793	19781204	GB19810012794	19781204
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FR19840018637	19841206	GB19830004508	19830218	GB19830004509	19830218
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Family:	Publication number	Publication date	Application number	Application date
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	AU198314338 A1	19830908	AU19830014338	19830506
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	GB2094527 B2	19821124	GB19810035231	19810424
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	GB2094528 B2	19821124	GB19820002121	19781204
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	GB2096372 B2	19821124	GB19810012793	19781204
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	GB2096373 B2	19821124	GB19810012794	19781204
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US5390153 A	19950214	US19930007560	19930122

Probable Assignee: SCHERBATSKOY S A

Assignee(s):(std): GEARHART OWEN INDUSTRIES ; SCHERBATOSKOY SA ; SCHERBATOSKOY S A ; CALLAHAN M ; CALLAHAN MICHAEL ; GEARHART IND INC ; SCHERBATSKOY SERGE ALEXANDER ; SCHERBATSKOY S A ; SCHERBATSKOY S ; SCHERBATSKOY SERGE ; SCHERBATSKOY SERGE A ; SCHERBATSKOY SA ; SERGE A SCHERBATSKOY ; SERGE A SCHERBATSKOM ; GEARHART OWEN IND ; SERGE ALEXANDER SCHERBATSKOY TE FORT WORTH TEXAS V

Assignee(s): SERGE ALEXANDER SCHERBATSKOY TE FORT WORTH TEXAS VER ST V AM ; SERGE ALEXANDER SCHERBATSKOY ; GEARHART OWEN IND INC ; SCHERBATSKOY TIMOTHY D ; SCHERBATSKOY SERGE ALEXANDER FORT WORTH TEX ; SCHERBATSKOY TIMOTHY D CO TRUSTEES OF SCHERBATSKOY ; SCHERBATSKOY SERGE ALEXANDER FORT WORTH TEX US ; SCHERBATSKOY TIMOTHY D CO TRUSTEES OF SCHERBATSKOY FAMILY TRUST AS ; SCHERBATSKOY TIMOTHY D CO TRUSTEES OF SCHERBATSKOY FAMILY TRUST ; SCHERBATSKOY JR SERGE A AND ; GEARHART INDUSTRIES INC ; SCHERBATSKOY JR ; SCHERBATSKOY FAMILY TRUST PO BOX ; MICHAEL CALLAHAN ; GEARHART OWEN INDUSTRIES INC ; SCHERBATSKOY FAMILY TRUST

Inventor(s):(std): SCHERBATSKOY SERGE ALEXANDER ; SERGE ALEXANDER SCHERBATSKOY ; SERGE A SCHERBATSKOY ; SERGE A SCHERBATSKOM ; SCHERBATSKOY SERGE A ; SCHERBATSKOY S ; SCHERBATSKOM SERGE A ; CALLAHAN MICHAEL

Inventor(s): ALEXANDER SCHERBATSKOY SERGE ; MICHAEL CALLAHAN ; SCHERBATSKOY SERGE ALEXANDER FORT WORTH TEX

Agent(s): MADDERN; SMART AND BIGGAR

International class (IPC 8-9): C04B28/02 E21B41/00 E21B44/00 E21B45/00 E21B47/00 E21B47/01 E21B47/06 E21B47/12 E21B47/18 E21B47/24 E21B49/00 E21B7/00 E21C39/00 F21S8/00 F21V7/16 G01V1/28 G01V1/40 H01M10/50 H01M2/10 H01M6/36 H05B37/02 (Advanced/Invention); E21B45/00 H01M2/10 H01M6/36 (Advanced/Non-invention); E21B41/00 E21B45/00 E21B47/00 E21B47/06 E21B47/12 E21B49/00 E21B7/00 F21S8/00 F21V7/00 G01V1/28 G01V1/40 H01M10/42 H05B37/02 (Core/Invention); H01M2/10 H01M6/30 (Core/Non-invention)

International class (IPC 1-7): C04B14/10 C04B24/08 C04B28/02 E21B21/08 E21B21/10 E21B41/00 E21B45/00 E21B47/00 E21B47/022 E21B47/06 E21B47/12 E21B7/00

CPC: E21B47/18 E21B47/185 E21B47/187 E21B47/12 Y10S362/802 H05B37/029 F21V7/16 F21W2131/406 H01M10/39 E21B41/0085 E21B47/011 H01M2/10 H01M6/36 H01M10/615 H01M10/6571 H01M10/658 H01M10/62 H01M10/637

European class: E21B41/00R E21B47/01P E21B47/12 E21B47/18 E21B47/18N E21B47/18P F21V7/16 H01M10/39

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175/40 175/48 175/50 33/307 340/853 362/267 362/268 362/276 362/278 362/285 362/307 362/319
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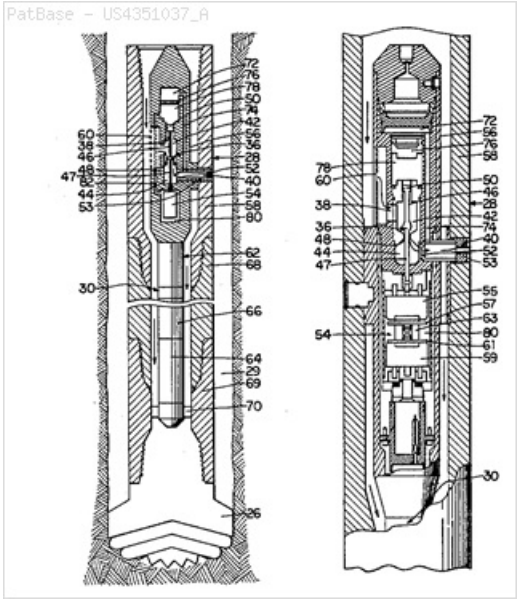
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DE3028813, CN104265278, CN104254988, CN104007331, CN104007331, CN102900398, CH675169,
AU578052, AU2013223875, AU2011229698, AU2003200091,

Abstract:

Source: US4351037A [EN] A method and apparatus for continuously logging while drilling a well bore with a rotary drilling rig comprising a drill string, a jet type drill bit, and mud pump means for circulating fluid under pressure. The apparatus generally

includes means for sensing one or more downhole parameters near the drill bit, means for generating a sequence of electrical pulses representative of said parameter, and means for generating negative mud pressure pulses in the drilling fluid ("drilling mud") within the drill string in response to said electrical pulses. Receiving means at the earth's surface detect the negative mud pressure pulses and utilize the sequence of these pulses to produce signals representative of said parameter. The receiving means employ means to substantially eliminate the effects of the pressure pulsations generated by the mud pump and to extract the negative mud pressure pulses the sequence of which represent the downhole parameter. The means for generating the negative mud pressure pulses involves utilization of the existing energy on the high pressure side of the drill bit through a bypass to the low pressure side of the drill bit controlled by a valve mechanism and arrangement. The design of the valve mechanism and arrangement is such that the valve can be powered for actuation as necessary over a requisite time period by self-contained downhole power source, and is not subject to unacceptable wear.



Priority: US19770840451 19771007

Publication number	Publication date	Application number	Application date
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JP54074311 A2	19790614	JP19780124074	19781006
JP59015598 B4	19840410	JP19780124074	19781006
US4160131 A	19790703	US19770840451	19771007

Assignee(s):(std): NIPPON ELECTRIC CO

Inventor(s):(std): BUSCHMAN BOB D ; DANIERU AARU UENDORINGU ; DEIPATSUKU AARU MUZUNDAARU ; DEIPITSUDO EI RABU ; IKAWA MICHIO ; INOKAWA MICHIO ; KAUL PRADEEP P ; LOVE DAVID A ; MIURA AKIRA ; MUZUNDAAR DEEPAK R ; PURADEEIPU PII KAURU ; SCHOLL THOMAS H ; TOOMASU EICHI SHIYOORU ; BOBU DEII BUTSUSHIYUMAN ; WENDLING DANIEL R

International class H04M3/56 H04Q3/58 (Advanced/Invention)

International class H04M3/56 H04Q11/04 H04Q3/58 H04Q5/20

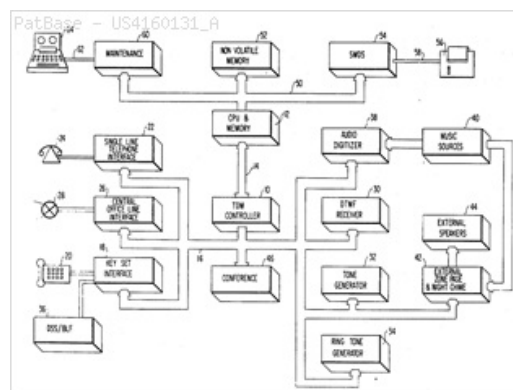
European class: H04M9/00K5 H04M9/02 H04Q11/04C

US class: 370/359 370/362 379/156

Cited documents: US4061887 A, US4024345 A, US3973085 A, US3967072 A, US3935396 A, US3914559 A, US3909550 A,

Forward Citations: WO9312594, US7489300, US7057496, US6952669, US6756881, US6721282, US6633631, US6496576, US6456705, US6408060, US6377671, US6373924, US6263061, US5291492, US5023891, US4831516, US4641337, US4570035, US4511767, US4511766, US4440986, US4412102, US4382163, US4363936, US4347409, US4327256, US4322581, US4292474, US2012117510, US2005225536, US2005030165, US2003132839, US2003021402, EP0617863, DE3905724,

Source: US4160131A [EN] An electronic key telephone system is disclosed that provides a plurality of telephone features and functions, while only requiring a four-wire line between the central equipment and each key-set telephone (KST) and a two-wire line between the central equipment and each single-line telephone (SLT). Linear delta coding and time division multiplex (TDM) techniques are used to eliminate the multiple pairs required in traditional private business exchange (PBX) systems between the remote key telephones and the control unit. In the present system, a microprocessor controlled TDM controller transmits and receives control signals serially to and from **interfaces** in the system for control purposes and also for establishing exchange of digitized audio information data between selected **interfaces**. The system thus exchanges digitized audio information directly between **interfaces** and provides control signalling between the TDM controller and the **interfaces**, with all of the exchanges being done in real time. Among other things, the system is compatible with all types of existing central office exchange lines. The system may use combinations of single-line telephones (SLTs) or key-set telephones (KSTs). Specialized functions, such as conference calls, background music, external zone paging and night chime, as well as on-line maintenance, system configuration reprogramming, out-going telephone call control, and recordkeeping are available. To reduce complexity and increase economy, several functions in the system are time-shared, and the system is constructed in modular form to allow its capabilities to be tailored for its intended use.



Title: Air assisted ship

Priority:

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Family:

Publication number	Publication date	Application number	Application date
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Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; MARKS AND CLERK; REINHOLD COHN AND PARTNERS

Designated states: AE AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CS 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 SU SZ TD TG TJ TM TR TT UA UG US UZ VN YU ZA ZW

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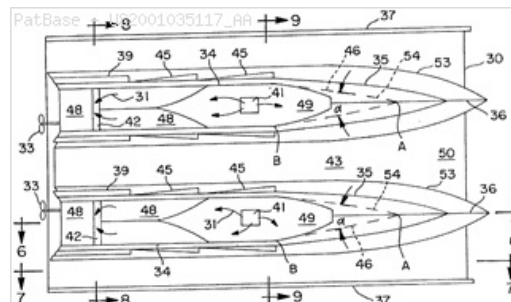
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Abstract:

Source: US2001035117A [EN] An improved marine vehicle that offers very high efficiencies made possible by pressurized gas cushion(s) disposed between its hull(s) and a water surface is presented. The gas cushion(s), in the ideal arrangement, is supplied with pressurized gas by a powered blower that obtains at least part of its inlet gas flow from an opening(s) in upper surfaces of a wing shaped cabin structure referred to as the main wing. In an optional arrangement, gas supply to a propulsion system engine, normally a gas turbine, can be obtained from similar opening(s) in an upper surface of the main wing and, further, gas discharge from a propulsion system engine can be used to aid in pressurizing the hull's pressurized gas cushion or, in another arrangement, can be directed out openings in an upper surface of the main wing. The main wing is aerodynamically shaped on its upper surface which increases vehicle efficiency. Use of boundary layer flow control on the upper surfaces of the main wing in the form of gas bleeds or extra gas supply facilitates increased aerodynamic efficiency. The main wing acts as a **connecting** hull structure between two or more marine hulls. It is normal for the main wing to contain much of the payload of the vehicle. A secondary wing may be placed above the main wing to help direct airflow over the upper surfaces of the main wing. The gas cushion recess(es) in the hull(s), in the preferred embodiment, are curvilinear over at least a portion of its upper surface(s) to thereby add structural rigidity and to add to buoyancy when the gas cushions are not pressurized. A gas cushion seal is provided with a means to control gas flow and thereby reducing blower power requirements. Further, steps may be inset into the sides of the hull(s) that reduce drag in rough seas but yet are protected by hull chines when transitioning into planing mode.



Title: Multiple frequency cleaning system

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WO9806143 A1	19980212	WO1997US12853	19970801
WO9858417 A1	19981223	WO1998US12413	19980615

Probable Assignee: FRUEHAUF TRAILER SERVICES INC**Assignee(s):(std):** PUSKAS WILLIAM L ; PUSKAS WILLIAM ; FRUEHAUF CORP ; BLACKSTONE NEY ULTRASONICS INC

Assignee(s): CLEANING TECHNOLOGIES GROUP LLC ; CONGRESS FINANCIAL CENTRAL CORP ; CONGRESS FINANCIAL CORP ; FIFTH THIRD BANK ; K H CORP ; IBJ SCHRODER BANK AND TRUST CO ; MADELEINE LLC ; FRUEHAUF TRAILER CORP ; WABASH NATIONAL CORP ; FRUEHAUF TRAILER SERVICES INC ; WILLIAM L PUSKAS

Inventor(s):(std): PUSKAS WILLIAM L ; PUSKAS WILLIAM ; GILL CHARLES B**Inventor(s):** WILLIAM L PUSKAS

Agent(s): RICHES MCKENZIE AND HERBERT LLP; MARK G LAPPIN MCDERMOTT WILL AND EMERY; MCDERMOTT WILL AND EMERY LLP, ATTN: INTELLECTUAL PROPERTY DEPARTMENT DOCKETING; MCDERMOTT WILL

AND EMERY LLP ATTN INTELLECTUAL PROPERTY DEPTARTMENT DOCKETING; MARK G LAPPIN FOLEY AND LARDNER LLP; FOLEY AND LARDNER LLP; PHILLIPS LYTTLE LLP, INTELLECTUAL PROPERTY GROUP; PHILLIPS LYTTLE LLP INTELLECTUAL PROPERTY GROUP; PHILLIPS LYTTLE LLP,INTELLECTUAL PROPERTY GROUP; MCDERMOTT WILL AND EMERY LLP; MARK G; LAPPIN MARK G; PHILLIPS LYTTLE LLP; PHILLIPS-LYTTLE LLP; RICHARDS ROWLAND ET AL

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 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 MW MX MY 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 ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

International class (IPC 8-9): B01J19/10 B06B1/00 B06B1/02 B06B1/06 B06B3/00 B08B3/00 B08B3/04 B08B3/12 B65G67/60 C02F1/461 C07C1/00 G01H3/00 G01N29/00 G01R31/00 G01R31/02 G10K11/00 H01L41/00 H01L41/08 H01L41/09 H02N2/00 H02N2/06 H03H7/18 H03H9/13 (Advanced/Invention); H01L41/083 (Advanced/Non-invention); B01J19/10 B06B1/02 B06B1/06 B08B3/00 B08B3/04 B08B3/12 B65G67/00 C02F1/461 C07C1/00 G01H3/00 G01N29/00 G01R31/00 G01R31/02 G10K11/00 H01L41/00 H01L41/09 H02N2/02 H03H7/00 H03H9/125 (Core/Invention); H01L41/083 (Core/Non-invention)

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US class: 134/1 134/1.3 134/113 134/18 134/184 134/186 134/18S 134/1P 134/2 134/25.4 134/25.400S 134/2S 134/34 134/34S 134/40 134/56 134/56.00RS 134/56R 134/57 134/57.00RS 134/57R 134/58R 134/902 198/509 198/587 198/632 198/700 198/703 198/861.2 204/157.15 204/157.150P 205/687 205/687S 210/312 310/316 310/316.01 310/316.010P 310/316.02 310/316.03 310/317 310/317S 310/319 310/320 310/320S 310/322 310/323.01 310/325 310/328 310/328P 310/334 310/334S 310/336 310/337 310/359 324/500 333/170 333/187 356/36 356/36S 414/140.2 414/141.1 414/142.5 414/143.1 700/266 700/266P 700/275 702/185 73/590 73/64.53 73/64.56 73/64.560P

[Classification Explorer](#)

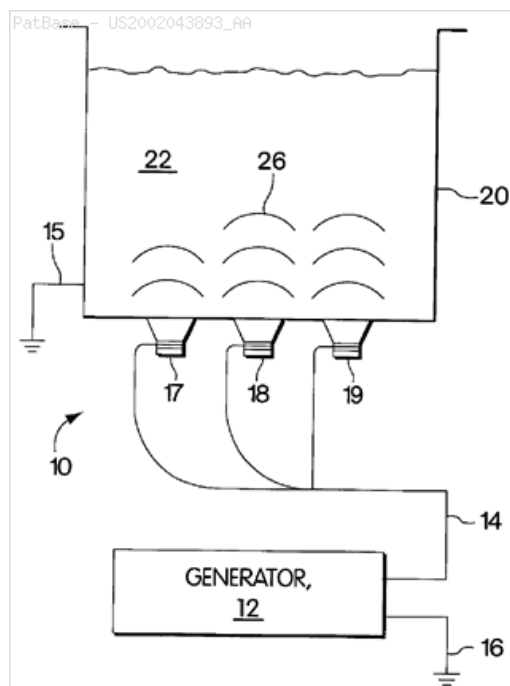
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Abstract:

Source: US2002043893A [EN] The invention utilizes multiple frequency sound in liquids to improve the cleaning or processing effect. The sound frequencies are produced in two or more non-overlapping continuous frequency ranges. The sound frequencies are controlled to change frequency within the frequency ranges and the sound frequencies are programmed by a digital code to jump amongst the frequency ranges. The sound frequencies may change continuously within the frequency ranges, and the sound frequencies may jump discontinuously from one frequency range to another. The frequency ranges may also be within different, non-contiguous and non-overlapping frequency bands.



Title: BATTERY MONITORING SYSTEM

Priority: GB19800021285 19800628 GB19810019925 19810629 GB19830031466 19831125
 GB19830031468 19831125 GB19830031467 19810629 GB19830031465 19831125
 US19800208097 19801118 GB19830031469 19831125

Family:	Publication number	Publication date	Application number	Application date
	DE3031852 A1	19820121	DE19803031852	19800823
	DE3031852 C2	19831110	DE19803031852	19800823
	DE3031853 A1	19820121	DE19803031853	19800823
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Probable Assignee: LUCAS IND LTD**Assignee(s):**(std): LUCAS INDUSTRIES LTD ; LUCAS IND LTD ; LUCAS IND PLC**Assignee(s):** LUCAS INDUSTRIES LIMITED ; LUCAS IND ; LUCAS INDUSTRIES LTD BIRMINGHAM WEST MIDLANDS GB ; LUCAS INDUSTRIES PLC ; LUCAS INDUSTRIES PUBLIC LIMITED COMPANY**Inventor(s):**(std): ARLIDGE NEVILLE J ; LOWNDES M W ; ADAMS DEREK S ; NEVILLE JOHN ARLIDGE ; LOWNDES MICHAEL WILLIAM ; LOWNDES MICHAEL W ; LOWNDES DEREK STANLEY ADAMS ; ARLIDGE NEVILLE JOHN ; ADAMS DEREK STANLEY**Inventor(s):** DEREK STANLEY ADAMS ; ARLIDGE NEVILLE JOHN KINGS HEATH BIRMINGHAM GB ; ADAMS DEREK STANLEY SHIRLEY SOLIHULL GB ; ADAMS DEREK STANLEY SOLIHULL GB ; M W LOWNDES ; ADAMS LOWNDES DEREK STANLEY ; LOWNDES MICHAEL WILLIAM MOSELEY BIRMINGHAM GB ; STANLEY ADAMS DEREK ; WILLIAM LOWNDES MICHAEL ; ARLIDGE NEVILLE JOHN BIRMINGHAM GB ; JOHN ARLIDGE NEVILLE

International class
(IPC 8-9): G01R31/36 H02J7/00 (Advanced/Invention);
 G01R31/00 (Advanced/Non-invention);
 G01R31/36 H02J7/00 (Core/Invention);
 G01R31/00 (Core/Non-invention)

International class
(IPC 1-7): B60L11/18 B60L3/00 G01R29/24 G01R31/36 G06F15/56 H01M10/42 H01M10/44 H01M10/48 H02J7/00 H02J7/04 H02J7/10 H02J7/14

CPC: Y10S320/18 Y10S320/21 Y10S320/34 B60L11/1853 B60L11/1861 B60L15/2045 G01R31/006
 G01R31/362 G01R31/3648 G01R31/3658 H02J7/0078 Y02T10/7016 Y02T10/7044 Y02T10/705
 Y02T10/7283 Y02T10/645 Y02T10/72

European class: B60L11/18M22 B60L11/18M28 B60L15/20E G01R31/36M3 G01R31/36N2 G01R31/36V1 G01R31/36V1C
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 Y02T10/72D6

US class: 318/139 320/100 320/116 320/118 320/132 320/134 320/141 320/149 320/151 320/152 320/17 320/32
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 340/825.52 364/483

[Classification Explorer](#)

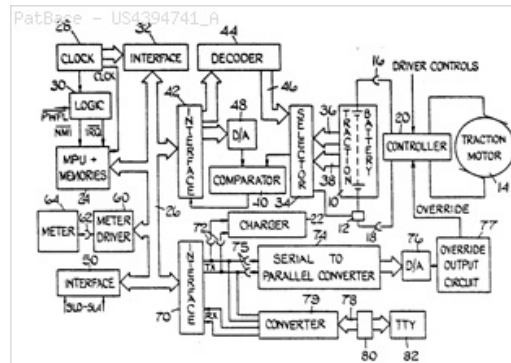
Cited documents: US4394741 A, US4333149 A, US4331911 A, US4322685 A, US4290109 A, US4271402 A, US4217645 A, US4210855 A, US4198597 A, US4198594 A, US4153867 A, US4086524 A, US4053824 A, US4025916 A, US4017724 A, US4012681 A, US4008423 A, US4006397 A, US3940679 A, US3925714 A, US3786343 A, US3735234 A, US3623139 A, US3568175 A, US3505584 A, US3484681 A, US3424916 A, US3417307 A, GB679106 A, GB599415 A, GB2086060 A1, GB2046923 A1, GB2031168 A1, GB2015171 A1, GB2008338 A1, GB2007444 A1, GB2000596 A1, GB1531294 A, GB1494458 A, GB1465240 A, GB1454358 A, GB1434435 A, GB1432318 A, GB1262016 A, GB1163377 A, GB1046801 A, EP0051722 A1, EP0012315 A1, DE2852625 A1, DE2848466 A1, DE2814025 A1, DE2732794 A1, DE2354178 A1, DE2333932 B2, DE2333932 A1, DE2313566 A1, DE2128015 B, DE2028117 B2, DE2028117 A1, DE1413940 A1,

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Abstract:

Source: US4394741A [EN] A microprocessor based electric vehicle traction battery monitoring system evaluates the state of charge, **interfaces** with a traction motor control system, and controls recharging. The state of charge is evaluated during the first part of discharge by integrating the current after compensating it for rate of discharge and during the last part of discharge by dividing the battery into sub-packs and evaluating the state of charge from the lowest sub-pack voltage compensated for polarization voltage. The charge storage capacity is also calculated from the lowest sub-pack voltage. The maximum traction motor current is progressively limited during the last part of discharge. During charging, the charge withdrawn is replaced while progressively reducing the charging current and the battery is then charged at a constant current until the rate of rise of the lowest sub-pack voltage falls below a fixed level.



Title: Video image recording methods and devices

Priority: CA19820404609 19820607 CA19820490205 19820607 CA19820490207 19820607
 CA19820490208 19820607 CA19830431325 19830628 CA19820490206 19820607
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Family:	Publication number	Publication date	Application number	Application date
	CA1194986 A1	19851008	CA19820404609	19820607
	CA1198767 A1	19851231	CA19830431325	19830628
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	US4433345 A	19840221	US19810275257	19810619
	US4530011 A	19850716	US19820444546	19821126

Probable Assignee: MILES INC A CORP OF INDIANA**Assignee(s):(std):** DUNN INSTR INC ; LOGETRONICS INC ; LOGE DUNN INSTR INC ; KONISHIROKU PHOTO IND ; DAN SYSTEMS INC ; ROGUII DAN INSUTSURUMENTSU INC**Assignee(s):** MILES INC A CORP OF INDIANA ; MENZIMER DAVID A ; DBA SYSTEMS INC ; LOGE DUNN INSTRUMENTS INC 544 SECOND ST SAN FRANCI ; LOGE DUNN INSTRUMENTS INC A CORP OF DE ; LOGE DUNN INSTRUMENTS INC SAN FRANCISCO CALIF US ; LOGE DUNN INSTRUMENTS INC TE SAN FRANCISCO CALIFORNIE VER ST V AM ; LOGETRONICS INC TE SPRINGFIELD VIRGINIA VER ST V AM ; LYON GEORGE E ; MILES INC ; LOGE DUNN INSTRUMENTS INC ; MATRIX INSTRUMENTS INC ; KONISHIROKU SHASHIN KOGYO KK ; DUNN SYSTEMS INC ; DUNN SYSTEMS INC A CORP OF CA ; HADDICK DAVID H**Inventor(s):(std):** AKIYAMA MITSUO ; DEBITSUDO ARAN MENJIIMAA ; DEBITSUDO HARORUDO HADEITSUKU ; HADDICK DAVID H ; HADDICK DAVID HAROLD ; JIYOJJI ERITSUKU RION ; LYON GEORGE E ; LYON GEORGE ERIC ; LYON GOERGE E ; MENZIMER DAVID A ; MENZIMER DAVID ALAN**Inventor(s):** MENZIMER DAVID ALAN MORGAN HILL CALIF ; MENZIMER DAVID ALAN MORGAN HILL CALIF US ; LYON GEORGE ERIC SAN FRANCISCO CALIF ; LYON GEORGE ERIC SAN FRANCISCO CALIF US ; HADDICK DAVID HAROLD BERKELEY CALIF ; HAROLD HADDICK DAVID ; ERIC LYON GEORGE ; GEORGE ERIC LYON ; ALAN MENZIMER DAVID ; DAVID ALAN MENZIMER ; DAVID HAROLD HADDICK**Agent(s):** JOHNSON AND HICKS; BENJAMIN J BARISH; REINHOLD COHN AND PARTNERS; GE EHRlich 1995 LTD

International class (IPC 8-9): A61B5/05 A61B6/00 B65H7/14 G01N23/04 G03B27/62 G03B29/00 G03B41/00 G03G15/00 G03G15/04 G03G21/00 H04N1/036 H04N1/23 H04N1/407 H04N5/76 H04N5/84 H04N5/91 (Advanced/Invention); B65H7/14 G03B27/62 G03B41/00 G03G15/00 G03G15/04 G03G21/00 H04N1/407 H04N5/76 H04N5/84 (Core/Invention); H04N (Subclass/Invention)

International class (IPC 1-7): A61B1/04 A61B10/00 A61B5/05 A61B6/00 A61B6/02 G01N23/04 G03B15/14 G03B27/32 G03B27/72 G03B27/80 G03B29/00 G03B41/00 G03B41/16 G03G15/00 G03G15/04 G05D25/02 G06F15/20 G09G1/00 H04N1/036 H04N1/22 H04N1/23 H04N5/14 H04N5/52 H04N5/57 H04N5/76 H04N5/84 H04N5/87 H04N5/91

CPC: H04N1/407 H04N1/4072 G03B27/6264**European class:** G03B27/62C4S H04N1/407 H04N1/407B**US class:** 358/244 386/113 386/128 386/130 386/230 386/248 386/280 386/282 386/314 386/342[Classification Explorer](#)**Cited documents:** US4345276 A, US4344699 A, US4342048 A, US4240729 A, US4027315 A, US4005262 A, US3852602 A, US3738242 A, US3700329 A, US3684886 A, US3610119 A, US3471740 A, US3400632 A, US3281861 A,

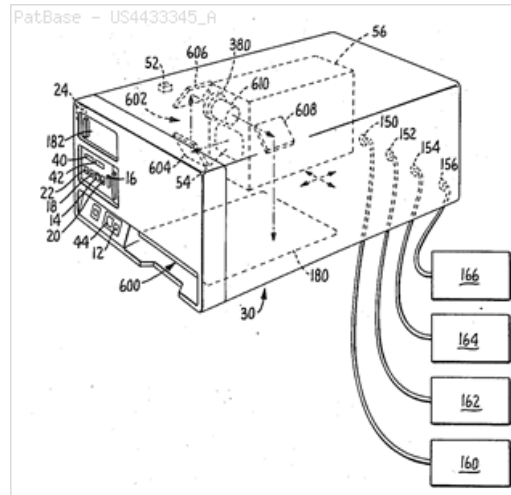
US3177764 A, JP52017440 A2, JP48062449 A2, GB845458 A, GB2104673 A1, GB2084338 A1, GB1585063 A, GB1571818 A, GB1452490 A, GB1195545 A, EP0024352 A1, DE2818555 A1, DE2311210 C2, DE2303800 A1, DE1462027 A1,

Forward Citations:

USRE38005, US7733425, US6235014, US5839827, US5483259, US5481657, US5295202, US5120127, US5053879, US4931825, US4924254, US4922284, US4891691, US4829339, US4742397, US4736250, US4707739, US4694355, US4679087, US4656525, US4656524, US2004194132, JP63125932, JP62088747, JP61173590, JP61013781, JP59012030, GB2205657, GB2172463, EP1562081, EP0283255, EP0230361, EP0150834, DE3525807, DE3504656,

Abstract:

Source: US4433345A [EN] Video image recording device for photographically recording video images selected from video input signals on sheets of film, provided with means for reducing or completely eliminating recorded image drift. Recorded image parameter controls are provided which are calibrated in terms of Dunn Density Index numbers, which are related to the densities of the recorded video images. Image polarity inversion control means are provided for the recorded image and for each individual video input signal channel.



Title:	MAN MACHINE INTERFACE							
Priority:	CA19830424713 19830328		US19820363404 19820329		US19830479191 19830328			
Family:	Publication number		Publication date		Application number		Application date	
	CA1183609 A1		19850305		CA19830424713		19830328	
	EP0107263 A2		19840502		EP19830301773		19830329	
	EP0107263 A3		19870520		EP19830301773		19830329	
	US4570217 A		19860211		US19830479191		19830328	
Probable Assignee:	SCHNEIDER AUTOMATION INC							
Assignee(s):(std):	DUPRIE HAROLD J ; KING BRUCE A ; HUDNALL RICHARD E ; LAPIDUS STANELY N ; GILBERT DANIEL R ; THAKRAR KIRAN ; KIMERER BRIAN S ; SIROIS ANDREW F ; POIRER BRUCE A ; HUNT PHILIP G ; DZIEZANOWSKI JOSEPH J ; FRIEDEL SEYMOUR A ; GOULD INC ; ALLEN BRUCE S ; BROMBERG MICHAEL A ; BROWN MICHAEL ; CARLSON ANNE M ; DOIG ROBERT C ; DUNALVEY MICHAEL R							
Assignee(s):	LAPIDUS STANLEY N ; POIRIER BRUCE A ; AEG SCHNEIDER AUTOMATION INC ; DUNLAVEY MICHAEL R ; MODICON INC ; NEW MODICON INC ; SCHNEIDER AUTOMATION INC							
Inventor(s):(std):	ALLEN BRUCE S ; BROMBERG MICHAEL A ; BROWN MICHAEL ; CARLSON ANNE M ; DOIG ROBERT C ; DUNALVEY MICHAEL R ; DUNLAVEY MICHAEL R ; DUPRIE HAROLD J ; DZIEZANOWSKI JOSEPH J ; FRIEDEL SEYMOUR A ; GILBERT DANIEL R ; GILBERT DANIELR ; HUDNALL RICHARD E ; HUNT PHILIP G ; KIMERER BRIAN S ; KING BRUCE A ; LAPIDUS STANELY N ; LAPIDUS STANLEY N ; POIRER BRUCE A ; POIRIER BRUCE A ; SIROIS ANDREW F ; THAKRAR KIRAN							
Agent(s):	SMART AND BIGGAR							
Designated states:	AT BE CH DE FR GB IT LI LU NL SE							
International class (IPC 8-9):	G06F1/14 G06F11/00 G06F11/07 G06F11/10 G06F13/12 G06F13/26 G06F13/37 G06F13/42 G06F3/06 G06F9/00 G06F9/44 G06F9/46 G06F9/48 G06F9/50 G09G5/02 G09G5/393 (Advanced/Invention); F02B75/02 (Advanced/Non-invention); G06F1/14 G06F11/00 G06F11/07 G06F11/10 G06F13/12 G06F13/20 G06F13/36 G06F13/42 G06F3/06 G06F9/44 G06F9/46 G09G5/02 G09G5/36 (Core/Invention); F02B75/02 (Core/Non-invention)							
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US class:	364/188 364/191 364/900 700/83 714/E11.003 714/E11.006 714/E11.025 714/E11.032							
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Abstract:

FIG. 1 is a block diagram of a computer system. The system includes a CPU module (10), a memory module (20), a video controller (30), a video monitor (40), a floppy disk controller (50), a power supply (60), and a power supply (70). The CPU module (10) is connected to the memory module (20) and the video controller (30). The memory module (20) is connected to the video controller (30). The video controller (30) is connected to the video monitor (40). The floppy disk controller (50) is connected to the CPU module (10). The power supply (60) is connected to the CPU module (10) and the memory module (20). The power supply (70) is connected to the video monitor (40). The system is also connected to a network (80) and a printer (90).

Title:Video conferencing network

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Probable Assignee:UNIPURE CORP

Assignee(s):(std):DATA POINT CORP ; DATAPOINT CORP ; UNION OIL CO ; UNION OIL CO OF CALIFORNIA

Assignee(s):UNION OIL CO OF CALIFORNIA BREA CALIF US ; YUNOKARU CORP ; WALKER DOUGLAS T ; CIT GROUP CREDIT FINANCE INC ; UNIPURE CORP ; NORTHERN TELECOM INC ; UNION OIL CO OF CALIFORNIA BREA CALIF ; NORTHERN TELECOM INC A DE CORP ; UNION OIL CO OF CALIFORNIA DBA UNOCAL ; FIDELCOR BUSINESS CREDIT 810 SEVENTH AVENUE NEW YO ; FIDELCOR BUSINESS CREDIT CORP

Inventor(s):(std):ARENDS THOMAS C ; ARENDS THOMAS CLARK ; BARRY MICHAEL W ; BARRY MICHAEL WILLIAM ; DOUGLAS T WALKER ; ELLIOTT NEAL TOMPKINS ; ERIATSUTO NIIRU TAMUKINZU ; FRASSANITO JOHN R ; MAIKURU UIRIAMU BARI ; MICHAEL WILLIAM BARRY ; MONROE DAVID A ; TAMASU KURAAKU ARENZU ; THOMAS CLARK ARENDS ; TOMPKINS E NEAL ; TOMPKINS ELLIOTT NEAL ; WALKER T ; WALKER DOUGLAS T ; TOMPKINS ELIOT N ; TOMPKINS E NEIL

Inventor(s):UOOKAA DAGURASU TEII

Agent(s):FB RICE; FB RICE PTY LTD; FETHERSTONHAUGH AND CO

Designated states:AT AU BB BE BF BG BJ BR CA CF CG CH CM DE DK ES FI FR GA GB HU IT JP KP KR LI LK LU MC MG ML MR MW NL NO RO SD SE SN SU TD TG

International class (IPC 8-9):C02F1/52 C02F1/62 C02F1/72 C02F9/00 H04M11/00 H04M3/56 H04N11/00 H04N11/24 H04N7/14 H04N7/15 H04Q11/04 (Advanced/Invention); H04M11/00 H04N11/00 H04N7/14 H04N7/15 (Advanced/Non-invention); H04M11/00 H04M3/56 H04N11/00 H04N7/14 H04N7/15 H04Q11/04 (Core/Invention)

International class (IPC 1-7):C02F1/20 C02F1/52 C02F1/58 C02F1/62 C02F1/74 H04M11/00 H04N11/00 H04N7/14 H04Q11/04

CPC:H04M3/561 H04Q11/04 H04M3/568 H04N7/15 H04N7/152 Y10S210/912 Y10S210/913 Y10S210/904 Y10S210/908 C02F1/72 C02F2101/18 C02F2101/203 C02F2101/22 C02F9/00 C02F1/52 C02F1/5236 C02F2101/20

European class:C02F1/52 C02F1/52F C02F1/72 C02F9/00 C02F9/00F H04M3/56A H04N7/15 H04N7/15M H04Q11/04 M02F101/18 M02F101/20 M02F101/20B M02F101/22 T04M3/56P

US class:210/712 210/717 210/718 210/721 210/722 210/724 210/726 210/738 210/904 210/908 210/912 210/913 348/14.08 348/14.11 348/E07.083 348/E07.084 348/E7.083 348/E7.084 370/259 370/260 370/271 370/522 370/62 379/202 379/202.01 55/53 709/204 709/208 710/316 95/263

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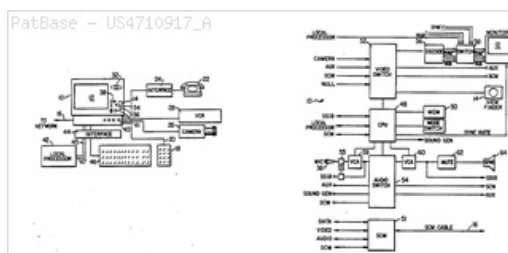
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Abstract:

Source: US4710917A [EN] A video conferencing **network** includes remote video terminals (10) interconnected to a switching **network** (66) through coaxial cables (16). The switching **network** (66) is operable to provide an audio and video data path between two or more video terminals (10). The switching **network** (66) operates as both an audio/video crosspoint switch and also as a **network** controller. In the **network** control mode, the switching **network** (66) operates in both a master mode for maintaining data communication with all of the video terminals (10) and also in a slave mode for maintaining status of devices attached to the switching **network** (66). In the master mode, the switching **network** (66) receives requests from each of the video terminals (10) and services these requests to determine available data paths for interconnection with other video terminals. In the slave mode, the switch (66) is in data communication with all of the video terminals (10) to determine the status thereof which is stored in a slave status table. This information in the status table is transferred to a separate **network** table that is maintained in the master mode for **network** purposes.



Title: Method and apparatus for routing message packets

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International class G06F12/00 G06F12/02 G06F13/16 G06F13/20 G06F13/38 G06F15/16 G06F15/17 G06F15/173
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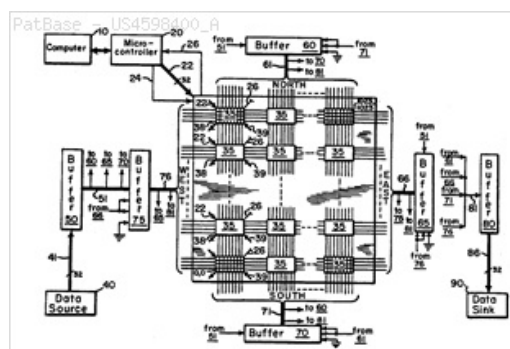
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Forward Citations: WO9833304, WO9635997, WO9516964, WO9412939, WO9403860, WO9313434, WO9311496, WO9307569, WO9119258, WO9110197, WO9009635, WO8901665, WO8808566, WO8804077, WO09073346, WO09073346, WO08110806, WO04010286, WO04010286, WO03023556, WO03023556, WO02099670, WO02052425, WO0203203, WO0203203, WO0114987, WO0114987, WO0062182, WO0062182, WO0054153, WO0054153, USRE45223, USRE45109, USRE44383, USRE44365, US9807771, US9806988, US9779470, US9690747, US9584719, US9571126, US9568946, US9552047, US9535877, US9531671, US9449132, US9436631, US9374108, US9319352, US9274984, US9250908, US9208057, US9183410, US9172676, US9170812, US9141390, US9107136, US9092595, US9075605, US9047440, US9042434, US9037807, US9036499, US9021011, US9009809, US9003510, US8988418, US8959469, US8914590, US8904148, US8898768, US8892627, US8892154, US8887162, US8873559, US8869121, US8862076, US8849340, US8848368, US8832413, US8819505, US8812820, US8803552, US8799209, US8798630, US8788453, US8781909, US8762691, 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Abstract:

Source: US4598400A [EN] A parallel processor array is disclosed comprising an array of processor/memories and means for interconnecting these processor/memories in an n-dimensional pattern having at least 2n nodes through which data may be routed from any processor/memory in the array to any other processor/memory. Each processor/memory comprises a read/write memory and a processor for producing an output depending at least in part on data read from the read/write memory and on instruction information. The interconnecting means comprises means for generating an addressed message packet that is routed from one processor/memory to another in accordance with address information in the message packet and a synchronized routing circuit at each node in the n-dimensional pattern for routing message packets in accordance with the address information in the packets. Preferably the address information in the message packet is relative to the node in which the message packet is being sent and each digit of the address represents the relative displacement of the message packet in one dimension from the node to which the message packet is being sent. Advantageously, the n-dimensional pattern is a Boolean cube of 15 dimensions. With presently available technology, more than one million such processor/memories can be operated in parallel while interconnected by these interconnecting means.



Title: Image processing system

Priority: EP19850308316 19851114 EP19850308316P 19851114 JP19840239993 19841114
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Family:

Publication number	Publication date	Application number	Application date
DE3585279 D1	19920305	DE19853585279	19851114
DE3588084 D1	19960328	DE19853588084	19851114
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US6324554 BA	20011127	US19950451002	19950525

Probable Assignee: CANON INC**Assignee(s):(std):** CANON KK**Assignee(s):** KYANON KK ; CANON INC ; CANON K K ; CANON K K TOKIO TOKYO JP ; CANON KABUSHIKI KAISHA**Inventor(s):(std):** FURUKAWA FUMIO ; HAMADA MASAKI ; HASEGAWA TAKETO ; INA KENZO ; ISHIZAWA YASUHISA ; KATO TAKAHIRO ; MINAGAWA TAKASHI ; SAGO MASAKI ; SHIMIZU MASAOKI ; TAKAKURA HIROSHI ; TANAKA KENSAKU ; UCHIUMI MASAYUKI ; WATANABE YASUHIRO ; UTSUMI MASAYUKI ; MIAGAWA TAKASHI ; KATOU TAKAHIRO ; INA KENZOH ; SAGOH MASAKI ; SAGO MASAOKI ; HAMADA MASAKA**Inventor(s):** FURUKAWA FUMIO YOKOHAMA SHI KANAGAWA KEN JP ; FURUKAWA FUMIO SETAGAYA KU TOKYO JP ; MINAGAWA TAKASHI YOKOHAMA SHI KANAGAWA KEN JP ; HASEGAWA TAKETO YOKOHAMA SHI KANAGAWA KEN JP ; HASEGAWA TAKETO TOKYO JP ; HAMADA MASAKI YOKOHAMA SHI KANAGAWA KEN JP ; HAMADA MASAKI TOKYO JP ; KATO TAKAHIRO TOKYO JP ; ISHIZAWA YASUHISA YOKOHAMA SHI KANAGAWA KEN JP ; INA KENZOH YOKOHAMA SHI KANAGAWA KEN JP ; TEILNICHTRNENNUNG DES ERFINDERS BEANTRAGT ; TANAKA KENSAKU YOKOHAMA SHI KANAGAWA KEN JP ; TAKAKURA HIROSHI YOKOHAMA SHI KANAGAWA KEN JP ; SHIMIZU MASAOKI SAGAMIHARA SHI KANAGAWA KEN JP ; SAGOH MASAKI YOKOHAMA SHI KANAGAWA KEN JP ; SAGOH MASAKI KAWASAKI SHI KANAGAWA KEN JP ; WATANABE YASUHIRO YOKOHAMA SHI KANAGAWA KEN JP ; UTSUMI MASAYUKI TOKYO JP ; UTSUMI MASAYUKI OHTA KU TOKYO JP**Designated states:** DE FR GB IT**International class (IPC 8-9):** G06F17/21 G06F17/24 G06F17/27 G06F17/28 G06K15/00 G06T1/00 G06T11/60 G09G1/06 G09G1/16 G09G5/00 G09G5/14 G09G5/24 G09G5/30 G09G5/32 G09G5/36 G09G5/38 G09G5/40 H04N1/21 H04N1/387 (Advanced/Invention); G06F17/21 G06F17/24 G06T1/00 G06T11/60 G09G1/06 G09G1/16 G09G5/00 G09G5/14 G09G5/24 G09G5/30 G09G5/32 G09G5/36 G09G5/38 G09G5/40 H04N1/21 H04N1/387 (Core/Invention)**International class (IPC 1-7):** G06F15/20 G06F15/62 G06F15/72 G06F17/21 G06F17/24 G06T11/60 G09G1/06 G09G1/16 G09G5/24 G09G5/32 G09G5/36 G09G5/40 H04N1/21 H04N1/387

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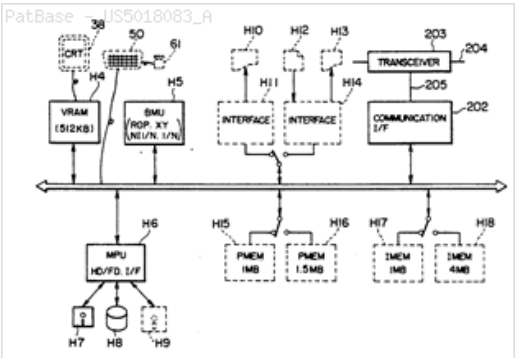
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[Classification Explorer](#)

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Forward Citations: WO9502224, WO0159576, USD548237, USD542803, USD537833, USD537832, USD537084, USD537083, USD530720, USD530337, USD529918, US9904462, US9870195, US9866794, US9858033, US9727207, US9471269, US9465573, US9448759, US9430181, US9330366, US9224129, US9135954, US9116656, US9111462, US9092119, US9087337, US9069731, US8990677, US8924859, US8918724, US8918723, US8918722, US8918721, US8914735, US8887065, US8881024, US8875011, US8826147, US8812945, US8806352, US8754317, US8700996, US8692099, US8643651, US8610641, US8549403, US8253967, US8120619, US8065599, US8010491, US7989689, US7953712, US7948448, US7839512, US7834819, US7827488, US7827483, US7783969, US7765466, US7760269, US7689915, US7664775, US7612278, US7600183, US7594171, US7418653, US7320104, US7305619, US7305617, US7296227, US7168037, US7167274, US7123261, US7103837, US7085778, US7071941, US7071941, US7039862, US6993709, US6985146, US6978418, US6928611, US6907366, US6809748, US6751779, US6496222, US6466954, US6219382, US6169544, US6167382, US6166824, US6163623, US6078934, US6026389, US6023716, US6002798, US5956549, US5943680, US5940664, US5926672, US5900003, US5848184, US5845302, US5787328, US5752053, US5737737, US5734761, US5724491, US5720016, US5671429, US5621873, US5602623, US5576847, US5548700, US5528742, US5522028, US5424945, US5390354, US5384863, US5353222, US5208905, US5197122, US2011310103, US2011161806, US2010088591, US2009313301, US2008092051, US2008046835, US2007297010, US2007226611, US2007179977, US2007052851, US2007035771, US2006288842, US2006095838, US2006080081, US2006026523, US2005262073, US2005198078, US2005193042, US2005177786, US2005030576, US2005002590, US2004268255, US2004172425, US2004172424, US2004161149, US2004139401, US2004125108, US2004125107, US2004019848, US2004006742, US2003229856, US2003200507, US2003191591, US2003151607, US2003100965, US2003063869, US2003063317, US2003056178, US2002095445, US2002085006, US2002062324, JP7287565, JP7271548, JP7261742, JP7175718, JP7168813, JP64055983, JP63042885, JP4181369, JP4105164, JP3248260, JP3157751, JP3088063, JP2851739, JP2007047925, JP1130272, JP1130267, JP1130254, GB2202064, GB2202064, FR2618580, EP0608904, EP0585073, EP0585073, EP0559376, EP0385545, EP0311437,

Abstract:
Source: US5018083A [EN] An image processing system which inputs and edits image data including document data and prints and **displays** a document with figures with a pleasing style. This system comprises: an output device which can output the image data including document data; a parameter adding device to add output parameters to edit the image data outputted by the output device; and an edition control unit which can edit, as a headline, at least a part of the image data outputted by the output device on the basis of the parameters added by the parameter adding device. These parameters include data such as position, size, character style, and the like of the headline. With this system, arbitrary information such as headline, catchword, line number, page number, caption, or the like can be extremely easily arranged at any position of the image data **displayed** on the CRT and the document with such information can be printed in a pleasing style. Also, document and figure data can be freely edited.



Title: DOCUMENT FILING SYSTEM WITH KNOWLEDGE-BASE NETWORK OF CONCEPT INTERCONNECTED BY GENERIC, SUBSUMPTION, AND SUPERCLASS RELATIONS

Priority: EP19860104083 19860325 JP19850060678 19850327 JP19870297568 19871127
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US19920831039 19920210

Family:	Publication number	Publication date	Application number	Application date
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	EP0638870 B1	19991229	EP19940114719	19860325
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Probable Assignee: HITACHI LTD

Assignee(s):(std): HITACHI LTD

Assignee(s): HITACHI LTD A CORP OF JAPAN ; HITACHI SEISAKUSHO KK

Inventor(s):(std): DEBITSUTO KON ; YAMAZAKI NAOKO ; WAKABAYASHI MINORU ; TONO JUNICHI ; KIUCHI ITSUKO ; HATAKEYAMA ATUSHI ; HATAKEYAMA ATSUSHI ; HASHIMOTO TETSUYA ; HIGASHINO JUN ICHI ; FUJISAWA HIROMICHI ; DEBITSUDO KON ; COHN DAVID

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Designated states: DE FR GB

International class (IPC 8-9): G06F12/00 G06F17/27 G06F17/28 G06F17/30 G06F3/048 G06F3/14 G06F9/44 G06N5/04 G06T11/20 (Advanced/Invention); G06F12/00 G06F17/27 G06F17/28 G06F17/30 G06F3/048 G06F3/14 G06F9/44 G06N5/00 G06T11/20 (Core/Invention)

International class (IPC 1-7): G06F12/00 G06F15/40 G06F17/28 G06F17/30 G06F3/14 G06F9/44

CPC: G06F17/30604 G06F17/2235 G06F17/274 Y10S706/934 Y10S707/99935 Y10S707/99933 Y10S707/99934 Y10S715/968 G06F17/273 G06F17/30401 G06F17/271 G06F17/277 G06F17/2785 G06F17/30672 G06F17/30654 G06F17/30011 G06F17/30722 G06T11/206

European class: G06F17/22H G06F17/27 G06F17/27A2 G06F17/27C G06F17/27G G06F17/27R2 G06F17/27S G06F17/30D G06F17/30H G06F17/30H2 G06F17/30R4 G06F17/30S1E G06F17/30S4F7 G06F17/30S8R2 G06F17/30T2F4 G06F17/30T2P2X G06F17/30T6 G06T11/20T

US class: 1/1 364/200 364/513 364/963 364/974.6 364/975 395/157 395/161 395/356 395/600 706/11 706/50 706/53 706/55 706/934 707/3 707/4 707/5 707/999.003 707/999.004 707/999.005 707/E17.008 707/E17.074 715/205 715/255 715/273 715/533 715/804 715/853 715/854 715/968

[Classification Explorer](#)

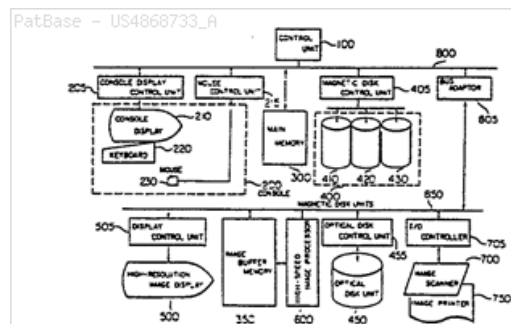
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Forward Citations: WO9966378, WO9966378, WO9826357, WO9803906, WO9738376, WO9738376, WO9723831,

WO9719415, WO9719415, WO9710537, WO9710537, WO9700486, WO9015386, WO17178476, WO17033588, WO11126491, WO08123757, WO05094158, WO05094158, WO05073908, WO05013151, WO04099901, WO04099901, WO04097679, WO04088546, WO04088546, WO04086258, WO03034279, WO0217122, WO02069197, WO02063502, WO0104791, WO0101289, WO0014651, USRE45085, USRE43633, US9904726, US9811776, US9811513, US9805089, US9773055, US9710825, US9697577, US9697291, US9690826, US9659071, US9652527, US9633317, US9606990, US9594542, US9519681, US9519461, US9449299, US9411905, US9390117, US9349200, US9317595, US9292494, US9286347, US9268839, US9245243, US9208194, US9201956, US9177051, US9165055, US9165040, US9158838, US9135239, US9111008, US9110882, US9098492, US9081767, US9047339, US9031947, US9009590, US8949108, US8935184, US8931039, US8924198, US8914361, US8887076, US8862609, US8838659, US8812292, US8805867, US8799776, US8799209, US8788453, US8719318, US8706770, US8676802, US8666928, US8666730, US8661060, US8661016, US8660974, 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Abstract:

Source: US4868733A [EN] A document filing system is provided for storing a large amount of information in proper arrangement for facilitating utilization thereof by a **user**, while allowing semantical retrieval to be realized even from vague fragmental information. Further, a method is provided for expressing the facts constituting information in terms of "concepts" representing things and "relations" defined between the concepts internally of computer, and a method of inputting **user's** information to a computer through dialogical procedure and retrieving desired information. Information stored of the computer architects internally a concept **network** which is **displayed** in various forms such as hierarchical form based on subsumption relations between the concepts, hierarchical representation based on part-whole relation between the concept, a frame **display** of a single concepts, and tabular representation of a set of concepts belonging to a given class. The **network** may be browsed by referring to the contents of the **display** so that a **user** can easily know what kind of information has been stored internally of the computer, whereby he or she can perform inputting of new information and retrieval of desired information in a facilitated and simplified manner. The relations stored internally of the computer are classified into "generic relationship" and "instance relation" representing individual facts, whereby a generic framework of facts can be stored. The generic framework is **displayed** upon interaction with the **user** for allowing new information to be inputted and desired information to be retrieved in a facilitated and simplified manner. Retrieval by using sematic retrieval formula created internally through dialogical procedure is realized through inferring processing.



Title:

Gain switched audio conferencing network

Priority:

US19850720507 19850405

Family:

Publication number	Publication date	Application number	Application date
AU198655724 A1	19861009	AU19860055724	19860407
AU583367 B2	19890427	AU19860055724	19860407
JP2604575 B2	19970430	JP19860076861	19860404
JP61281689 A2	19861212	JP19860076861	19860404
KR19860008666 A	19861117	KR19860002572	19860404
KR940011580 B1	19941221	KR19860002572	19860404
US4716585 A	19871229	US19850720507	19850405

Probable Assignee:

DATAPOINT CORP

Assignee(s):(std):

DATA POINT CORP ; DATAPOINT CORP

Assignee(s):

FIDELCOR BUSINESS CREDIT CORP ; NORTHERN TELECOM INC ; DEITAPointo CORP ; CIT GROUP CREDIT FINANCE INC

Inventor(s):(std):

TOMPKINS ELIOT N ; TOMPKINS ELLIOT NEAL ; TOMPKINS E NEIL ; MONROE DAVID A ; JIYATSUKU NEIRU BAATORUMEI ; FRASSANITO JOHN R ; ERIATSUTO NIIRU TAMUKINZU ; BARTHOLMAE JACK NEIL ; BARTHOLMAE JACK N ; BARTHOLMAL JACK N

Inventor(s):

ELLIOT NEAL TOMPKINS ; JACK NEIL BARTHOLMAE

Agent(s):

FB RICE; FB RICE PTY LTD

International class (IPC 8-9):

H04M11/00 H04M3/56 H04N11/00 H04N11/24 H04N7/14 H04N7/15 (Advanced/Invention); H04M11/00 H04N11/00 H04N7/14 (Advanced/Non-invention); H04M11/00 H04M3/56 H04N11/00 H04N7/14 H04N7/15 (Core/Invention)

International class (IPC 1-7):

H04M11/00 H04M3/56 H04N11/00 H04N7/14

CPC:

H04M3/567 H04N7/15

European class:

H04M3/56M H04N7/15

US class:

348/E07.083 348/E7.083 370/266 370/62 379/202 379/202.01 379/389

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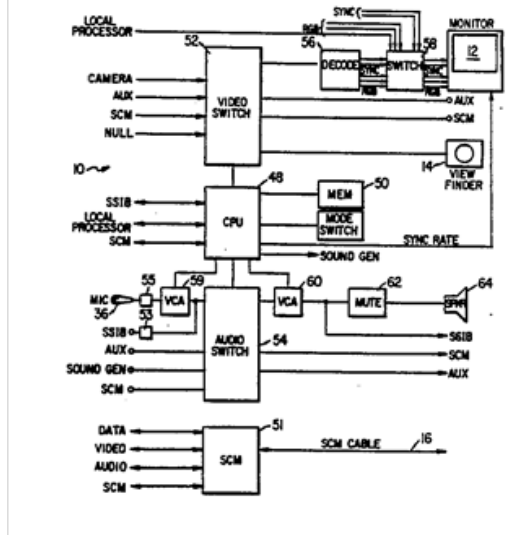
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Forward Citations:

WO9637069, WO9631055, WO8906078, US9639906, US9337898, US8086532, US8072909, US7945624, US7917436, US7908320, US7899445, US7831663, US7822813, US7742758, US7730132, US7707250, US7542555, US7487210, US7444373, US7441001, US7437412, US7437411, US7433921, US7421470, US7412482, US7398296, US7206809, US7185054, US7152093, US7130705, US7092406, US7082141, US7082106, US7061521, US7054904, US7054904, US6972786, US6959322, US6898620, US6789105, US6785234, US6639910, US6594688, US6583806, US6577605, US6437818, US6426769, US6404811, US6351762, US6343314, US6246873, US6240554, US6237025, US6212547, US6181707, US6178237, US6134232, US6084631, US6081291, US6069878, US6061089, US5991277, US5983183, US5930752, US5923747, US5852785, US5848146, US5841763, US5832077, US5825771, US5802294, US5793415, US5751338, US5619555, US5586114, US5534914, US5533112, US5491689, US5483528, US5420860, US5374952, US5283819, US5283638, US5192999, US5172408, US4796293, US2010227597, US2010172271, US2007260682, US2007042762, US2006165018, US2006136200, US2006133623, US2006106603, US2005128283, US2003202107, US2003158901, US2002124051, US2002090094, US2002024591, GB2231242, GB2231242, FR2649843, EP0689356, EP0689356, AU711062,

Abstract:

Source: US4716585A [EN] An audio conferencing system includes a plurality of remote stations (10) which are interconnected in a conference mode through a central switching **network** (66) through communication lines (16). Each of the remote stations has a microphone (34) and a speaker (64) associated therewith. The microphone (34) on each of the remote stations has a voltage controlled amplifier (VCA) (59) associated therewith and the speaker (64) has a VCA (60) associated therewith. A CPU (48) selectively controls the output of the microphone (34) to selectively decrease the gain thereof when voice is not detected. When voice is detected above a predetermined threshold, the microphone (34) is allowed to operate at full gain and the speaker (64) has the output level thereof decreased. This effectively reduces the audio loop gain between remote stations in a conference.



Title:

Workstation for interfacing with a video conferencing network

Priority:

US19850721083 19850408

Family:

Publication number	Publication date	Application number	Application date
AU198655722 A1	19861016	AU19860055722	19860407
AU587242 B2	19890810	AU19860055722	19860407
JP61281691 A2	19861212	JP19860079327	19860408
KR19860008668 A	19861117	KR19860002652	19860408
KR940009587 B1	19941015	KR19860002652	19860408
US4686698 A	19870811	US19850721083	19850408

Probable Assignee:

DATAPOINT CORP

Assignee(s):(std):

DATA POINT CORP ; DATAPOINT CORP

Assignee(s):

DATPOINT CORP ; FIDELCOR BUSINESS CREDIT CORP ; NORTHERN TELECOM INC ; DEITAPOINTO CORP ; CIT GROUP CREDIT FINANCE INC

Inventor(s):(std):

BARRY MICHAEL W ; BARTHOLMAE JACK N ; RILEY KIM K ; TOMPKINS E NEAL ; TOMPKINS ELIOT N ; TOMPKINS ELLIOTT NEAL ; RILEY KIM KARLEEN ; BARTHOLMAE JACK NEIL ; BARRY MICHAEL WILLIAM ; MAIKURU UIRIAMU BARI ; KIMU KAARIIN RAIRI ; JIYATSUKU NEIRU BAATORUMEI ; ERIATSUTO NIIRU TAMUKINZU

Inventor(s):

MICHAEL WILLIAM BARRY ; KIM KARLEEN RILEY ; JACK NEIL BARTHOLMAE ; ELLIOTT NEAL TOMPKINS

Agent(s):

FB RICE; FB RICE PTY LTD

International class (IPC 8-9):

H04M11/00 H04M3/56 H04N11/00 H04N11/24 H04N7/14 H04N7/15 (Advanced/Invention); H04M11/00 H04N11/00 H04N7/14 (Advanced/Non-invention); H04M11/00 H04M3/56 H04N11/00 H04N7/14 H04N7/15 (Core/Invention)

International class (IPC 1-7):

H04M11/00 H04N11/00 H04N7/14

CPC:

H04M3/567 H04N7/15

European class:

H04M3/56M H04N7/15

US class:

348/230.1 348/E07.083 348/E7.083 358/181 358/85 379/53

Classification Explorer

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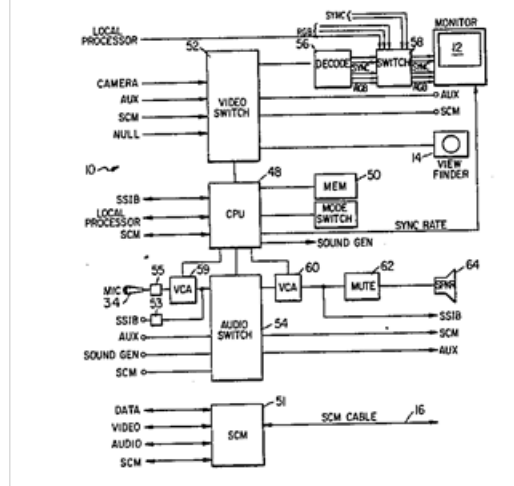
US4531024 A, US4488179 A, US4460918 A, US4386365 A, US4367548 A, US4292652 A, US4054908 A, US4028727 A, US4004084 A, US3992589 A, US3976831 A, US3975594 A, US3974337 A, US3974329 A, US3939306 A, US3922491 A, US3917904 A, US3873771 A, US3843837 A, US3816662 A, US3806658 A, US3781477 A, US3775563 A, US3766324 A, US3757225 A, US3725587 A, US3723653 A, US3718702 A, US3711648 A, US3705269 A, US3692938 A, US3684833 A, US3678207 A, US3660599 A, US3654708 A, US3639687 A, US3636265 A, US3617637 A, US3612767 A, US3587053 A, US3573377 A, US3534161 A, US3526709 A, US3519744 A, US3411140 A, US3352966 A, US3275746 A, US3263027 A, US3073906 A, US3061670 A, US3021384 A, JP58203534 A2, JP58187055 A2, JP57067946 A2, JP56042804 A2, JP53083417 A2, JP51012717 A2, EP0173554 A2, AU535400 B2, AU489615, AU3660584 A1,

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WO9103019, WO0065832, USRE44441, USRE44395, USRE44306, USRE43462, USRE42442, USRE40704, US9900226, US9276849, US9220567, US9191407, US8866872, US8805929, US8769081, US8717896, US8643695, US8633962, US8581959, US8548417, US8456510, US8396598, US8380866, US8350891, US8319814, US8237765, US8200792, US8170717, US8145998, US8139100, US8116301, US8086532, US8082501, US8068472, US8041459, US8027257, US8014286, US8005571, US7986335, US7945856, US7917436, US7908320, US7907164, US7859137, US7831663, US7822813, US7774501, US7730132, US7689712, US7669127, US7668168, US7668095, US7653925, US7583626, US7562130, US7554576, US7487210, US7463627, US7444373, US7441001, US7437412, US7437411, US7433921, US7421470, US7412482, US7398296, US7343398, US7337233, US7325063, US7321572, US7299405, US7257118, US7206809, US7185054, US7167191, US7152093, US7075924, US7054904, US7054904, US7050425, US6976032, US6972786, US6959322, US6934255, US6931512, US6898620, US6847611, US6839770, US6836804, US6789105, US6771617, US6738357, US6701370, US6671741, US6643622, US6625130, US6594688, US6583806, US6577605, US6577324, US6519651, US6437818, US6426769, US6404811, US6381227, US6351762, US6343314, US6338131, US6321268, US6320588, US6243684, US6240554, US6237025, US6212547, US6195683, US6161141, US6115750, US6081291, US6016388, US5999966, US5995726, US5995725, US5982509, US5968129, US5930238, US5872572, US5867654, US5852785, US5850250, US5848146, US5841763, US5831666, US5802294, US5751338, US5644711, US5627901, US5625407, US5623690, US5608653, US5594859, US5594495, US5566253, US5555017, US5551009, US5546324, US5537142, US5534914, US5530857, US5517652, US5475421, US5465370, US5444476, US5442693, US5375068, US5374952, US5283819, US5283638, US5206934, US5192999, US5107443, US5056136, US5008853, US5001473, US4987492, US4974173, US4949169, US4937672, US4935953, US4910604, US4893326, US4872197, US4839921, US4821307, US4802204, US4782519, US4760442, US2014250226, US2012327175, US2011115876, US2010225737, US2010225736, US2009300095, US2009282437, US2009280680, US2009228809, US2009177980, US2008316298, US2008316297, US2008316295, US2008183728, US2007165106, US2007093672, US2007083596, US2007009114, US2007009113, US2006284981, US2006277254, US2006059266, US2006041542, US2005232180, US2005053082, US2004228351, US2004218628, US2004202166, US2004088383, US2004073953, US2003202107, US2003187940, US2003158901, US2002124051, US2002056082, US2002046264, US2002024591, SG97738, KR101633683, JP63196188, JP63196187, GB2319138, GB2319138, GB2319135, GB2319135, EP0691778, EP0394606, EP0379354, DE4329173, AU696065, AU695412,

Abstract:

Source: US4686698A [EN] A workstation (10) for **interfacing** with a video conferencing **network** comprises a **display** (12) which has an internal camera (32) associated therewith. The camera (32) and various auxiliary devices such as a VCR (28) are input to a video switch (52) for selecting a video output. The video output is input to either a monitor (12) and/or to the **network** through an **interface** circuit (51). In addition, video can be received from a local processor (42). The monitor (12) operates at two video rates and can be switched therebetween by a CPU (48). The local processor (42) operates at a separate rate from the NTSC video of the monitor (12). A viewfinder (14) having a viewing surface smaller than the monitor (12) is provided as another output on the video switch (52) such that two **displays** can be received by the **user** at a given time. A microphone (34) and a speaker (64) are provided and controlled by an audio switch (54). This allows a full duplex audio path to exist between the **network** and the workstation (10).



Title:	Variable color digital timepiece			
Priority:	CA19860524804 19861209	CA19870551766 19871113	CA19880572307 19880718	
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Probable Assignee:	TEXAS DIGITAL SYSTEMS INC			
Assignee(s):(std):	704 BRAMALEA ONTARIO L6T 3W2 ; HAVEL K ; HAVEL KAREL ; HAVEL KAREL 15 KENSINGTON ROAD APARTMENT 704 BRAMA ; HAVEL KAREL 15 KENSINGTON ROAD APT 704 BRAMALEA ON			
Assignee(s):	TEXAS DIGITAL SYSTEMS INC ; KAREL HAVEL ; HAVEL KAREL 15 KENSINGTON ROAD APT 704 BRAMALEA ONTARIO L6T ; HAVEL KAREL 15 KENSINGTON ROAD APARTMENT 704 BRAMALEA ONTARIO ; HAVEL KAREL 15 KENSINGTON ROAD APT			
Inventor(s):(std):	704 BRAMALEA ONTARIO L6T 3W2 ; HAVEL KAREL KENSINGTON ROAD AP ; HAVEL KAREL			
Inventor(s):	HAVEL KAREL 15 KENSINGTON ROAD APARTMENT 704 BRAMA ; HAVEL KAREL 15 KENSINGTON ROAD APT 704 BRAMALEA ONTARIO L6T ; KAREL HAVEL ; HAVEL KAREL 15 KENSINGTON ROAD APT 704 BRAMALEA ON ; HAVEL KAREL 15 KENSINGTON ROAD APT ; HAVEL KAREL 15 KENSINGTON ROAD APARTMENT 704 BRAMALEA ONTARIO			
Agent(s):	MOFFAT AND CO			
International class (IPC 8-9):	G01K1/00 G04B45/00 G04G1/04 G04G21/02 G04G9/00 G04G9/12 G09G3/14 H04M1/56 H04M11/00 (Advanced/Invention); G01K1/00 (Core/Invention)			
International class (IPC 1-7):	A61B5/02 G01K1/00 G04B45/00 G04B47/00 G04B47/06 G04C19/00 G04G9/04 G09G1/00 G09G1/28 G09G3/14 H04M1/26 H04M11/00			
CPC:	G04G9/12 G04G21/025 G09G3/14 H04M1/56 G04G9/0064			
European class:	G04G21/02B G04G9/00F G04G9/12 G09G3/14 H04M1/56			
US class:	340/703 340/762 340/767 340/815.1 340/815.45 340/815.67 345/159 345/163 345/46 345/690 345/691 345/82 345/83 368/10 368/11 368/241 368/82 379/354 379/396 600/502 968/886 968/936 968/962			

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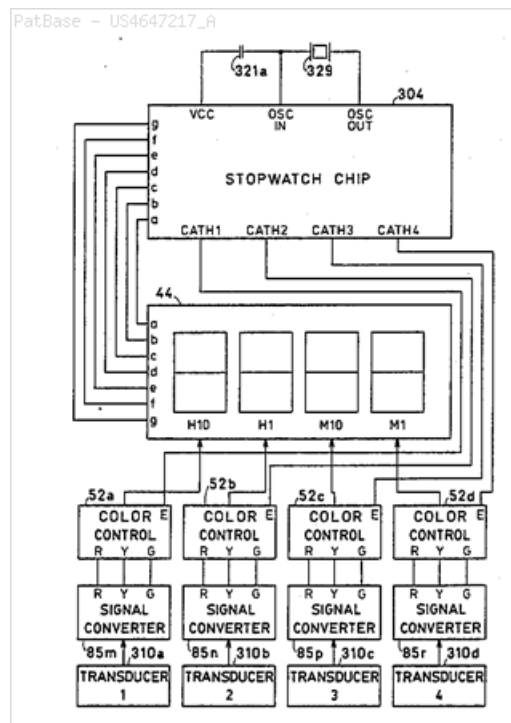
Cited documents: US4845481 A, US4726059 A, US4705406 A, US4488149 A, US4451157 A, US4301450 A, US4231033 A, US4190836 A, US4181134 A, US4086514 A, US4044546 A, US3978849 A, US3969887 A, US3937004 A, US3924227 A, US3922847 A, US3840873 A, US3763647 A, US3760174 A, US3740570 A, JP54019788 A2, GB2158631 A1, GB1569516 A, GB1528178 A, FR2274966 A1, DE3037500 A1, DE3009416 A1, DD220844 Z, DD220844 A1,

Forward Citations: WO9859382, WO9712205, WO12125625, WO11044085, WO11044083, WO11044040, WO05073617, WO05073617, WO04078028, WO04078028, WO0245467, WO0245467, WO0237463, WO0011917, US9908001, US9907137, US9814112, US9807842, US9803806, US9797558, US9777893, US9767709, US9759738, US9759392, US9752736, US9746139, US9739428, US9711062, US9683847, US9679494, US9645165, US9635727, US9635726, US9625485, US9615785, US9594360, US9589480, US9585216, US9581974, US9574717, US9550090, US9512844, US9510400, US9497817, US9489863, US9478149, US9420653, US9416923, US9415267, US9401098, US9398661, US9395075, US9353939, US9285084, US9271367, US9267650, US9244439, US9242142, US9222626, US9184518, US9163794, US9162613, US9113521, US9101026, US9087159, US9072171, US9057493, US9035563, US9013119, US9006993, US9006990, US8946996, US8928025, US8901823, US8894430, US8870415, US8870412, US8866396, US8855756, US8840282, US8829808, US8810159, US8807785, US8801577, US8773026, US8766885, US8729825, US8716945, US8702430, US8696155, US8694136, US8680787, US8674626, US8664888, US8664880, US8653984, US8643305, US8596813, US8556452, US8547264, US8547263, US8547262, US8541958, US8540401, US8523394, US8492988, US8492987, US8466628, US8454193, US8444292, US8427063, US8421366, US8395330, US8379038, US8362712, US8362710, US8362700, US8360936, US8360904, US8360599, US8330381, US8324817, US8313416, US8299695, US8264167, US8256924, US8256913, US8251544, US8242706, US8221290, US8214084, US8207821, US8200323, US8159146, US8148913, US8139349, US8130439, US8130185, US8118447, US8105208, US8033695, US8029166, US7994955, US7982698, US7976196, US7959320, US7946729, US7938562, US7927253, US7926975, US7868905, US7845823, US7804487, US7766517, US7764026, US7748148, US7740371, US7728799, US7724509, US7699603, US7679893, US7659674, US7652436, US7642730, US7637737, US7633405, US7598686, US7598684, US7598681, US7572028, US7570183, US7550931, US7525877, US7525254, US7520634, US7506996, US7505395, US7482764, US7482565, US7462997, US7460362, US7453217, US7452098, US7449847, US7443388, US7440264, US7427840, US7405715, US7401943, US7393119, US7387405, US7385574, US7385359, US7362662, US7358679, US7354172, US7352339, US7352138, US7350936, US7327337, US7309965, US7308296, US7303300, US7300192, US7274160, US7255457, US7253566, US7248239, US7242152, US7235792, US7231060, US7227634, US7221104, US7202613, US7187141, US7186003, US7186000, US7178941, US7161311, US7135824, US7132804, US7132804, US7113541, US7113196, US7079452, US7066619, US7064498, US7054233, US7042172, US7038399, US7038398, US7031920, US7015877, US7015825, US7014336, US6995739, US6987710, US6975079, US6967900, US6967448, US6965205, US6936978, US6897624, US6888322, US6869204, US6806659, US6801003, US6792294, US6788011, US6781329, US6777891, US6774584, US6734837, US6720745, US6717376, US6714488, US6690343, US6626557, US6624597, US6608453, US6583791, US6577287, US6577080, US6548967, US6535186, US6528954, US6459919, US6424327, US6414662, US6380916, US6359392, US6340868, US6329926, US6323832, US6310590, US6300923, US6292901, US6243021, US6239776, US6219014, US6211626, US6209913, US6208322, US6181126, US6166710, US6166496, US6150774, US6147483, US6121944, US6121767, US6119073, US6016038, US5999151, US5995456,

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Abstract:

Source: US4647217A [EN] A timepiece with variable color digital **display** indicates time in digital format and in a color variable in accordance with the output of a transducer. In the preferred embodiment, the color of the timepiece **display** is controlled, either in a plurality of steps or substantially continuously, in accordance with the functioning of a heart beating within the body of a timepiece **user**.



Title: Method of and apparatus for image analyses of biological specimens

Priority:

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Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: CELL ANALYSIS SYSTEMS INC

Assignee(s):(std): CELL ANALYSIS SYSTEMS INC ; BECTON DICKINSON CO ; SERU ANARASHISU SYST INC ; CELL ANALYSIS SYSTEM INC

Assignee(s): SILICON VALLEY BANK LOAN DOCUMENTATION H ; SILICON VALLEY BANK SUITE ; SILICON VALLEY BANK ; CELL ANALYSIS SYSTEMS INC ; BACUS JAMES W ; BACUS JAMES WILLIAM ; BECTON DICKINSON AND CO ; SERU ANARASHISU SHISUTEMUZU INC ; MMC GATX PARTNERSHIP NO 1 C O MEIER MITCHELL AND C ; MMC GATX PARTNERSHIP NO ; CELL ANALYSIS SYSTEMS INC A ILLINOIS CORP ; CELL ANALYSIS SYSTEMS INC A CORP OF IL ; CELL ANALYSIS SYSTEMS INC A CORP OF ILLINOIS ; MMC GATX PARTNERSHIP NO 1 ; CELL ANALYSIS SYSTEMS INC ELMHURST ILL US ; CELL ANALYSIS SYSTEMS INC LOMBARD ILL US ; CELL ANALYSIS SYSTEMS INC LOMBARD ILL ; MARDER ROBERT JOEL ; HERNICZ RALPH S

Inventor(s):(std): BACUS JAMES WILLIAM ; OUD PETER SIMON ; PIITAA SAIMON OODO ; ROBAATO JIYOERU MAADAA ; MARDER ROBERT JOEL ; MARDER ROBERT J ; HERNICZ RALPH S ; HERNICZ RALPH ; BEEKASU JEEMUSU UIRIAMU ; OUD PETER S ; BACUS WILLIAM ; BACUS JAMES W ; JIEEMUZU UIRIAMU BEIKASU ; BACUS JAMES

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Agent(s): MACRAE AND CO; GOWLING LAFLEUR HENDERSON LLP

Designated states: AT BE CA CH DE DK ES FR GB IT JP LI LU NL SE US

International class (IPC 8-9): B01L11/00 B01L99/00 C12M1/34 C12Q1/04 C12Q1/68 G01N1/00 G01N1/28 G01N1/30 G01N15/14 G01N21/00 G01N21/78 G01N33/48 G01N33/49 G01N33/50 G01N33/53 G01N33/535 G01N33/569 G01N33/574 G01N33/577 G01N33/68 G01N33/74 G01N33/96 G01N35/00 G01N35/02 G02B21/00 G02B21/34 G03B33/12 G06K9/00 G06K9/20 G06K9/34 G06M11/00 G06T1/00 G06T7/00 (Advanced/Invention); G01N15/10 (Advanced/Non-invention); C12M1/34 G01N15/14 G01N21/00 G01N33/48 G01N33/569 G02B21/34 G06K9/00 G06T7/00 (Core/Invention)

International class (IPC 1-7): B01L11/00 C12M1/34 C12M3/00 C12Q1/00 C12Q1/04 C12Q1/68 G01N1/00 G01N1/28 G01N1/30 G01N15/14 G01N21/00 G01N21/59 G01N21/62 G01N21/78 G01N33/48 G01N33/49 G01N33/50 G01N33/53 G01N33/535 G01N33/574 G01N33/577 G01N33/68 G01N33/74 G01N33/96 G01N35/00 G01N35/02 G02B21/00 G02B21/08 G02B21/26 G02B21/34 G03B33/12 G06F15/00 G06F15/42 G06F15/62 G06F15/70 G06K9/00 G06K9/20 G06K9/28 G06K9/34 G06K9/62 G06M11/00 G06T7/00 H04N7/18

CPC: B01L9/54 C12Q1/68 G06K9/00134 G01N2015/1018 Y10S435/808 Y10S435/96 Y10S436/805 Y10S436/807 Y10S436/813 Y10S436/817 C12M41/36 G01N1/30 G01N33/57415 G01N33/5748 G01N33/68 G01N33/743 Y10T436/101666 G01N2021/177 G06T7/85 G01N33/56966 G01N15/1468 G01N15/1475 G01N33/56972 G01N2015/1006 G01N2015/1472 G01N2021/1776 G06K9/00127 G01N21/6458 G01N2201/127

European class: B01L9/54 C12M1/34H C12Q1/68 G01N15/14H G01N15/14H3 G01N33/569H G01N33/569H2 G01N33/574C4 G01N33/574T G01N33/68 G01N33/74B G06K9/00B G06K9/00B1 G06T7/00C1 G06T7/00P S01N1/30 S01N15/10B S01N15/10C2 S01N15/14H2 S01N15/14H3 S01N201/127 S01N21/17V3 S01N21/17V3C S01N21/64P4C

US class: 348/131 348/135 348/176 348/263 348/33 348/79 350/523 356/318 356/320 356/39 358/101 358/107 358/39 359/396 359/397 364/113.08 364/413.08 364/413.1 382/1 382/128 382/129 382/133 382/134 382/164 382/274 382/308 382/6 422/68.1 424/3 435/172.2 435/240.27 435/28 435/287.2 435/288 435/288.7 435/291 435/6 435/6.12 435/7.2 435/7.21 435/7.23 435/7.24 435/808 435/960 436/10 436/112 436/164 436/172 436/183 436/501 436/548 436/63 436/64 436/805 436/807 436/813 436/817 530/387 530/388.22 600/310 935/110 D14/306

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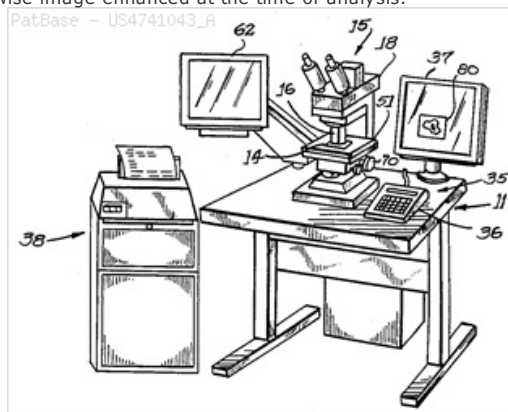
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Abstract:

Source: US4741043A [EN] A **user** interactive system for dynamically testing and evaluating various cells, antigens, or other materials taken from the human body. More specifically, the DNA in specimen cells is analyzed and quantified by image analysis using pattern recognition techniques. The **user** is provided with a unique slide or support on which there are specimen and reference materials or objects which are simultaneously stained or otherwise image enhanced at the time of analysis.



Title:	PARALLEL PROCESSING METHOD AND APPARATUS FOR INCREASING PROCESSING THROUGHOUT BY PARALLEL PROCESSING LOW LEVEL INSTRUCTIONS HAVING NATURAL CONCURRENCIES									
Priority:	EP19860907085 19861030		EP19860907085 19861030		US19920913736 19920714					
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Assignee(s):(std):	MCC DEV LTD ; BIAX CORP									
Assignee(s):	BIAX CORP PALM BEACH GARDENS FLA US ; EQUIPMENT INVESTMENT AND MANAGEMENT CO ; HEIZER EF ; HEIZER EF JR ; MCC DEVELOPMENT LTD ; LIVINGSTONE RAYMOND S JR ; LIVINGSTONE RAYMOND S ; UNION LEASING CORP ; ROTHSCILD VENTURES INC ; LIVINGSTONE RAYMOND S JR ; MCC DEVELOPMENT LTD A CO PARTNERSHIP LTD ; UNION LEASING CORP AGENT FOR EQUIPMENT INVESTME AS ; UNION LEASING CORP (AS AGENT FOR EQUIPMENT INVESTMENT AND MANAGEMENT CO INC RICHARD W BARRETT AND GEORGE M MERRIMAN) (UNION) ; UNION LEASING CORP AS AGENT FOR EQUIPMENT INVESTMENT AND MANAGEMENT CO INC RICHARD W BARRETT AND GEORGE M MERRIMAN UNION									
Inventor(s):(std):	BROOKS CHRISTOPHER ; BROOKS CHRISTOPHER B ; BROOKS CHRISTOPHER BANCROFT ; GLUCK FREDERICK G ; GLUCK FREDERICK GEORGE ; MORRISON GORDON E ; MORRISON GORDON EDWARD ; MORRISON GORDON ; GLUCK FREDERICK									
Inventor(s):	BROOKS CHRISTOPHER BANCROFT BOULDER CO 80302 US ; GLUCK FREDERICK GEORGE BOULDER CO 80301 US ; MORRISON GORDON EDWARD DENVER CO 80211 US									
Designated states:	AT BE CH DE FR GB IT JP LU NL SE									
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European class:	G06F8/445 G06F8/45 G06F9/38B2 G06F9/38E G06F9/38P G06F9/44F1A G06F9/44F1A1									
US class:	364/200 364/228.2 364/229 364/230.3 364/262.4 364/271.3 395/375 395/391 395/557 395/559 395/580 395/800.21 712/203 712/21 712/215 712/216 712/226 712/228 712/233 712/234 712/25 712/28 712/E09.049 712/E09.056 712/E09.062 712/E09.082 712/E09.083 712/E9.049 712/E9.056 712/E9.062 712/E9.082 712/E9.083 713/502 717/149									

[Classification Explorer](#)

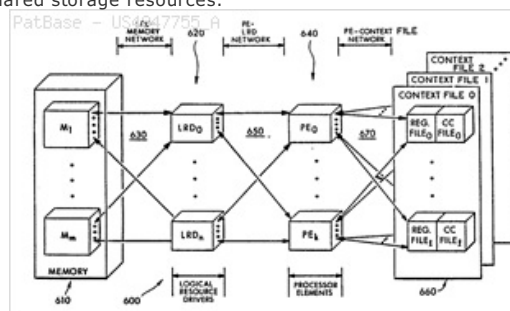
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Forward Citations: WO9628783, WO9217837, WO9117496, WO9117495, WO08022288, WO07001521, WO03067424, WO03067424, WO0208894, WO0208893, WO0116715, USRE41012, US9858077, US9851975, US9830157, US9794196, US9734876, US9665970, US9632939, US9632790, US9507569, US9471291, US9348868, US9274582, US9264380, US9229986, US9158816, US9135006, US9104633, US9104399, US9092343, US8954714, US8935297, US8902915, US8838817, US8793299, US8745119, US8725787, US8707281, US8707280, US8640112, US8626814, US8601245, US8589867, US8572586, US8566833, US8566568, US8516300, US8505002, US8495123, US8478968, US8423824, US8413169, US8402257, US8396915, US8392924, US8375247, US8341612, US8316219, US8315990, US8279886, US8255890, US8255889, US8255884, US8255745, US8250550, US8239846, US8239845, US8239844, US8214191, US8209524, US8185571, US8181004, US8108845, US8108240, US8102552, US8090933, US8090930, US8081645, US8078846, US8051255, US8037463, US8032873, US8032734, US8032549, US7991983, US7991980, US7945768, US7945433, US7930280, US7877584, US7877481, US7861228, US7818549, US7797519, US7779213, US7774558, US7774299, US7765554, US7747840, US7743235, US7739524, US7734901, US7725693, US7721071, US7715410, US7711934, US7706361, US7681018, US7681016, US7671863, US7661112, US7657708, US7653834, US7650465, US7649901, US7647487, US7647475, US7644307, US7627739, US7624255, US7610451, US7607042, US7594079, US7551626, US7546444, US7539852, US7526636, US7512842, US7509367, US7505974, US7502876, US7493516, US7490219, US7487505, US7487496, US7478376, US7475393, US7467286, US7447887, US7437724, US7430578, US7424505, US7421572, US7418571, US7415601, US7395298, US7376811, US7370178, US7366881, US7337275, US7310652, US7280548, US7246197, US7233331, US7228528, US7225281, US7216204, US7197043, US7191309, US7165257, US7159211, US7155516, US7139901, US7133942, US7133942, US7093105, US7082552, US7076640, US7076640, US7076630, US7069499, US7069425, US7065096,

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Abstract:

Source: US4847755A [EN] A computer processing system containing a plurality of processor elements operates on a statically compiled program which, based upon detected natural concurrencies in the basic blocks of the programs, includes intelligence regarding logical processor allocation and an instruction firing time in the instruction stream. Each processor element, in one embodiment, is context free and is capable of executing instructions on a per instruction basis so that dependent instructions can execute on the same or different processor elements. A processor element is capable of executing an instruction from one context followed by an instruction from another context through use of shared storage resources.



Title: GRAPHICAL SYSTEM FOR MODELLING A PROCESS AND ASSOCIATED METHOD

Priority: CA19870534709 19870414 US19860851569 19860414 US19920979416 19921119
US19890376257 19890706 US19890380329 19890712 US19860923127 19861024
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Family:	Publication number	Publication date	Application number	Application date
	AT120570 E	19950415	AT19870303122T	19870409
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Agent(s): KIRBY EADES GALE BAKER

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International class (IPC 8-9): G01R31/319 G05B15/02 G06F11/36 G06F17/50 G06F3/023 G06F3/033 G06F3/048 G06F9/00 G06F9/44 G06T17/40 G06T19/00 G09B9/00 (Advanced/Invention); G01R31/319 (Advanced/Non-invention); G01R31/28 G05B15/02 G06F11/36 G06F17/50 G06F3/023 G06F3/033 G06F3/048 G06F9/00 G06F9/44 G06T17/40 G09B9/00 (Core/Invention); G01R31/28 (Core/Non-invention)

International class (IPC 1-7): G05B15/02 G06F11/00 G06F13/42 G06F15/02 G06F15/16 G06F15/403 G06F15/46 G06F15/60 G06F15/72 G06F17/50 G06F3/00 G06F3/02 G06F3/023 G06F3/033 G06F3/14 G06F3/147 G06F3/153 G06F9/00 G06F9/06 G06F9/40 G06F9/44 G06F9/455 G06G7/48

CPC: Y10S715/967 Y10S715/97 Y10S715/965 G06F3/04847 G06T2200/24 G06F11/3632 G06F11/3636 G06F2217/74 G09B9/00 G06T1/20 G06T19/00 G01R31/31912 G06F3/0481 G06F3/04817 G06F8/34 G06F11/3664 G06F17/5009 G06F9/4494

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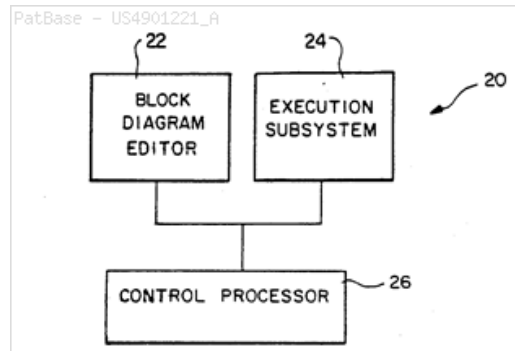
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Abstract:

Source: US4901221A [EN] A method for programming a computer system having a **display** console for **displaying** images to control at least one of a virtual instrument and an instrument by the steps of **displaying** on the screen at least one first function-icon that references at least one first control module for controlling at least one first function; **displaying** on the screen at least one iteration-icon that references iteration control module for controlling multiple iterations of data flow; **displaying** on the screen at least one first input variable-icon that references at least one first input variable; **displaying** on the screen at least one first output variable-icon that references at least one first output variable; and assembling on the screen a first acyclic data flow diagram including the at least one first function-icon and the at least one iteration-icon and the at least one first input variable-icon and the at least one first output variable-icon, such that the diagram **displays** a first procedure for producing at least one value for the at least one first output variable-icon from at least one value for the at least one first input variable-icon, and such that the at least one iteration-icon in the diagram indicates multiple iterations of the at least one first function in the course of the first procedure.



Title:

PERSONAL COMPUTER APPARATUS FOR BLOCK TRANSFER OF BIT-MAPPED IMAGE DATA

Priority:

CA19870542371 19870717 IL19870083203 19870715 IL19900095735 19900919
IN1990CA00606 19900719 IN1987CA00556 19870717 US19930029306 19930308
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WO1987US01627 19870714

Family:	Publication number	Publication date	Application number	Application date
	AU198779140 A1	19880210	AU19870079140	19870714
	AU600759 B2	19900823	AU19870079140	19870714
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AT AU BB BE BG BJ BR CF CG CH CM DE DK FI FR GA GB HU IT JP KP KR LK LU MC MG ML MR MW NL NO RO SD SE SN SU TD TG

International class (IPC 8-9):

A63F13/00 G06C1/00 G06F3/14 G06F3/153 G06K15/00 G09G5/00 G09G5/02 G09G5/24 G09G5/34 G09G5/36 G09G5/39 G09G5/393 G09G5/395 G09G5/397 (Advanced/Invention); G06F3/153 G09G5/00 G09G5/02 G09G5/34 G09G5/36 G09G5/42 (Advanced/Non-invention); A63F13/00 G06C1/00 G06F3/153 G06K15/00 G09G5/00 G09G5/02 G09G5/24 G09G5/36 (Core/Invention); G09G5/02 G09G5/34 G09G5/42 (Core/Non-invention); G06F (Subclass/Invention)

International class (IPC 1-7):

A63F9/22 G06C1/00 G06F13/00 G06F13/28 G06F15/62 G06F15/72 G06F15/78 G06F15/80 G06F3/14 G06F3/153 G06K15/00 G09G1/16 G09G5/00 G09G5/02 G09G5/06 G09G5/36

CPC:

A63F13/40 G09G5/022 G09G5/397 G09G5/42 G09G5/024 A63F13/00 A63F2300/203 G09G5/24 G09G5/346 G09G5/363 G09G5/39 G09G2360/127

European class:

A63F13/00 G09G5/02B G09G5/24 G09G5/36C G09G5/39 G09G5/397 K63F300/20G S09G360/12S S09G5/02A S09G5/34B S09G5/42

US class:

273/1E 273/DIG.28 340/720 340/750 345/186 345/199 345/503 345/522 345/537 345/545 345/562 345/564 345/600 395/162

[Classification Explorer](#)

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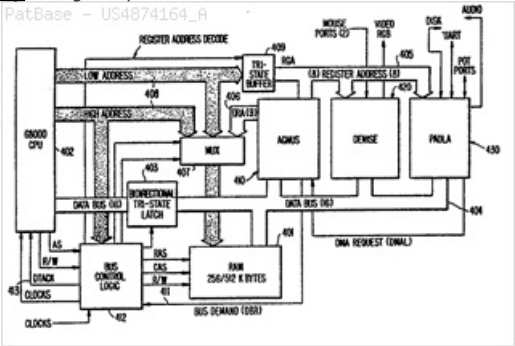
US4908779 A, US4809169 A, US4804948 A, US4777621 A, US4775857 A, US4752893 A, US4677574 A, US4572506 A, US4570217 A, US4509043 A, US4445187 A, US4445114 A, US4435776 A, US4420770 A, US4296476 A, US4243984 A, US4180805 A, US4177462 A, US4126893 A, US4085442 A, US4070710 A, US4053740 A, US4034983 A, US3996585 A, JP61029888 A2, JP60257495 A2, JP60249188 A2, JP60247297 A2, JP60225893 A2, JP60214081 A2, JP60172085 A2, JP60167063 A2, JP60140470 A2, JP60131595 A2, JP60108974 A2, JP59060484 A2, JP58126584 A2, JP58081064 A2, JP58054278 A2, JP56043977 A2, JP56025782 A2, EP0170977 A2, EP0165665 A2, EP0158314 A2, EP0106121 A2,

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WO9731441, WO9501629, WO05076119, WO05076119, US9905073, US9875618, US9824523, US9747744, US9691215, US9640039, US9588803, US9501903, US9501902, US9501901, US9495183, US9472065, US9460587, US9454793, US9425965, US9418518, US9418504, US9413538, US9412232, US9406200, US9390587, US9389933, US9355528, US9323921, US9311783, US9311782, US9311780, US9189923, US9153101, US9153100, US9148598, US9135774, US9111206, US8903705, US8824819, US8766887, US8715070, US8698929, US8558856, US8414372, US8189015, US8135229, US8120597, US8089431, US8086055, US8035627, US8004505, US7924274, US7768447, US7715642, US7636834, US7439966, US7362333, US7197234, US7102639, US7092035, US6943804, US6864900, US6572475, US6557092, US6313850, US6262746, US6243422, US6237029, US6229523, US6226413, US6211885, US6173393, US6145025, US6097401, US6028596, US6008782, US6006319, US5892521, US5880739,

Abstract:

Source: US4874164A [EN] A controller that provides data to a video **display** using a bitmap **display** memory organization and bitplane addressing. Separate control is provided for two bitplane backgrounds and for eight reusable and easily movable sprites. Additional logic allows for dynamically-controllable interobject priority and collision detection among data in each of the bitplane backgrounds and sprites. A coprocessor provides for video beam-synchronized changes to data in registers, freeing the main processor for general purpose computing tasks. A block image transfer is provided to rapidly copy data in large blocks from one memory location to another. In hold-and-modify mode, color output circuitry holds the value for a previously **displayed** pixel while bitplane data modifies those values, allowing for simultaneous **display** of a greatly increased number of colors.



Title: EVALUATION OF RESPONSES OF PARTICIPATORY BROADCAST AUDIENCE WITH PREDICTION OF WINNING CONTESTANTS; MONITORING, CHECKING AND CONTROLLING OF WAGERING, AND AUTOMATIC CREDITING AND COUPONING

Priority: US19860837827 19860310 US19880192248 19880510 US19880192355 19880510
US19890424089 19891019 US19900603882 19901025 US20020205832 20020725
US19910776180 19911015 US19940179589 19940110 US19970986850 19971208
US19960615472 19960308 US19940226073 19940411 US19910763672 19910919
US19930025397 19930225 US19900604787 19901025 US19980088148 19980601
WO1994US01535 19940214 WO1999US10850 19990517

Family:	Publication number	Publication date	Application number	Application date
	AU199461377 A1	19940914	AU19940061377	19940214
	AU199940822 A1	20000105	AU19990040822	19990517
	AU199940822 A5	20000105	AU19990040822	19990517
	EP0686334 A1	19951213	EP19940908036	19940214
	EP0686334 A4	19990915	EP19940908036	19940214
	EP0686334 B1	20030502	EP19940908036	19940214
	GB200028584 A0	20010110	GB20000028584	19990517
	GB2363583 A1	20020102	GB20000028584	19990517
	GB2363583 B2	20031001	GB20000028584	19990517
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	US2003003990 AA	20030102	US20020205832	20020725
	US4745468 A	19880517	US19860837827	19860310
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	US5034807 A	19910723	US19890424089	19891019
	US5057915 A	19911015	US19900603882	19901025
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	WO9419906 A1	19940901	WO1994US01535	19940214
	WO9966707 A2	19991223	WO1999US10850	19990517
	WO9966707 A3	20030206	WO1999US10850	19990517

Probable Assignee: QUEST NETTECH CORP

Assignee(s):(std): KOHORN H VON ; HENRY VON KOHORN ; RESPONSE REWARD SYSTEMS L C ; VON KOHORN HENRY

Assignee(s): RESPONSE REWARDS SYSTEMS LC ; RESPONSE REWARD SYSTEMS LC ; INTERTECH HOLDINGS LLC ; PRAGMATIC PATENT MANAGEMENT CO ; QUEST NETTECH CORP ; RESPNSE REWARD SYSTEMS LC

Inventor(s):(std): KOHORN HENRY VON ; VON KOHORN HENRY

Inventor(s): HENRY VON KOHORN ; KOHORN HENRY V

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 GD GE GH GM GN GR GW HR HU ID IE IL IN 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

International class (IPC 8-9): A63F11/00 A63F13/12 A63F3/08 A63F9/00 A63F9/18 A63F9/24 G07F17/32 G09B7/06 H04H20/28 H04H20/31 H04H20/38 H04H20/61 H04H20/62 H04H60/33 H04H60/45 H04H60/64 H04H60/68 H04H60/94 H04H9/00 H04N7/08 H04N7/088 (Advanced/Invention); A63F11/00 A63F13/12 A63F3/08 A63F9/00 A63F9/18 A63F9/24 H04H20/28 H04H20/31 H04H20/61 H04H20/62 H04H60/14 H04H60/33 H04H60/45 H04H60/94 (Advanced/Non-invention); A63F13/12 G07F17/32 G09B7/00 H04H1/00 H04N7/08 H04N7/087 (Core/Invention)

International class (IPC 1-7): A63B71/00 A63F13/00 A63F9/18 A63F9/22 A63F9/24 G06F15/28 G06F17/60 G07C13/00 G09B7/00 H04H9/00 H04N7/00 H04N7/08 H04N7/10

CPC: G07F17/3225 A63F13/338 G06Q30/02 G06Q30/0201 G06Q30/0212 G06Q30/0218 G06Q30/0225 G06Q30/0241 H04H60/14 G06Q30/0203 H04H60/68 G07F17/32 A63F9/18 A63F13/12 A63F2003/083 A63F2011/0095 A63F2300/409 A63F2300/638 G07F17/3202 G07F17/3227 G07F17/3248 G07F17/3262 G07F17/3295 G09B7/00 G09B7/063 H04H20/28 H04H20/31 H04H20/38 H04H20/61 H04H20/62 H04H60/33 H04H60/375 H04H60/45 H04H60/64 H04H60/94 H04H60/98 H04N7/08 H04N7/0806 H04N7/088 H04N7/0884

European class: A63F13/12 G06Q30/0201 G06Q30/0203 G06Q30/0212 G06Q30/0218 G06Q30/0225 G06Q30/0241 G07F17/32 G07F17/32C G07F17/32E2 G07F17/32K4 G07F17/32M2 G07F17/32P8 G09B7/00 G09B7/06B H04H20/26 H04H20/28 H04H20/38 H04H20/28 H04H260/64 H04H260/68 H04H60/26 H04H60/33 H04H60/37B H04H60/54 H04H60/60 H04H60/64 H04H60/68 H04H60/802 H04H60/94 H04H60/98 H04N7/08 H04N7/088D H04N7/08C K63F11/00Y10T4 K63F3/08E2Q K63F300/40T K63F300/63T K63F9/18 T04H20/262 T04H20/31 T04H20/61 T04H20/62 T04H20/69 T04H60/14 T04H60/26 T04H60/33 T04H60/36 T04H60/45 T04H60/802 T04H60/94 T04N7/088

US class: 273/138A 348/1 348/12 348/13 348/E07.024 348/E07.034 348/E07.039 348/E7.024 348/E7.034 348/E7.039 348/E70.24 348/E70.24S 348/E70.34 348/E70.34S 348/E70.39 348/E70.39S 358/84 358/86 364/402 364/405 364/412 379/72 379/92 379/92.01 434/323 455/2 455/4 455/4.2 455/42 455/5 455/5.1 455/51 463/16 463/16S 463/17 463/25 463/25P 463/40 463/40P 463/41 463/42 463/9 705/10 705/14 705/14.14 705/14.2 705/14.26 705/14.4 705/7.29 705/7.32 725/105 725/116 725/13 725/131 725/133 725/134 725/135 725/138 725/139 725/141 725/144 725/151 725/23 725/24 725/5 725/60 725/9 902/23

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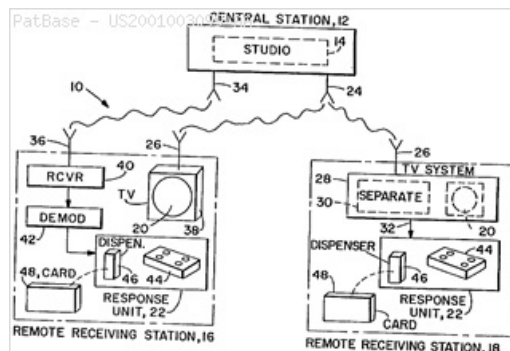
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Abstract:

Source: US2001003099A [EN] A system and method for evaluating responses to broadcast programs, such as television programs, include an instructional signal modulated onto a signal transmitted concurrently with the television program, simulcast, or time-multiplexed with a television. At each of a plurality of remote receiving stations, one or more members of a remote audience has the opportunity to respond to a situation presented in the television program by entering a response on a keyboard. The system includes response evaluation circuitry which may be located at a central facility or partially at the central facility and partially at each remote receiving station, or completely within a response unit at each remote receiving station, in the latter case the response unit having a memory responsive to the instructional signal for storing acceptable responses, a comparison circuit for comparing responses entered at the keyboard with those stored in the memory, circuitry for scoring responses in accordance with commands from the instructional signal, and a recording device for providing a permanent record of the audience score at the remote station. For conducting a sweepstakes, numbers or other responses are entered at the remote stations and are stored at a central facility for verification. The program may be presented live conducted by a host at a central station, or by a prerecorded message accessible by telephone from a remote station with regulation from a central station, and members of the remote audience may predict or select winning contestants.



Title:

Computer human interface comprising user-adjustable window for displaying or printing information

Priority:

US19870000619 19870105 US19870000620 19870105 US19870000625 19870105
US19870000626 19870105 US19890361738 19890602 US19890355092 19890517
US19920982401 19921127 US19910689113 19910422

Family:

Publication number	Publication date	Application number	Application date
CA1297995 A1	19920324	CA19870555227	19871223
EP0274087 A2	19880713	EP19870118487	19871214
EP0274087 A3	19891129	EP19870118487	19871214
JP63174122 A2	19880718	JP19870330335	19871228
US5062060 A	19911029	US19890355092	19890517
US5335323 A	19940802	US19920982401	19921127
US5502839 A	19960326	US19890361738	19890602

Probable Assignee:

GOOGLE TECHNOLOGY HOLDINGS LLC

Assignee(s):(std):

MOTOROLA INC ; COMPUTER X INC

Assignee(s):

GOOGLE TECHNOLOGY HOLDINGS LLC ; MOTOROLA MOBILITY INC ; MOTOROLA MOBILITY LLC

Inventor(s):(std):

KOLNICK FRANK C ; KOLNICK FRANK CHARLES ; FURANKU CHIYAARUZU KORUNITSUKE

Designated states:

DE FR GB

International class (IPC 8-9):

G06F3/02 G06F3/033 G06F3/048 G06F3/0481 G06F3/0484 G06F3/0485 G06F3/14 G06F9/44 (Advanced/Invention);
G06F3/02 G06F3/033 G06F3/048 G06F3/14 G06F9/44 (Core/Invention)

International class (IPC 1-7):

G06F13/00 G06F15/40 G06F3/02 G06F3/023 G06F3/033 G06F3/037 G06F3/14

CPC:

G06F9/451 G06F3/04855 G06F3/0481 G06F3/04845

European class:

G06F3/0481 G06F3/0484M G06F3/0485B G06F9/44W

US class:

345/765 345/800 345/804 345/853 364/228.2 364/237.9 364/239.9 364/280 364/284.2 364/521 364/DIG.1 395/157 395/164 395/800 710/1 715/765 715/800 715/804 715/853

[Classification Explorer](#)

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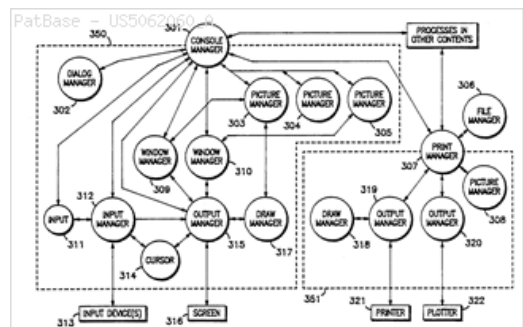
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Forward Citations:

WO9723831, WO9204682, WO08081303, WO08081303, WO07076547, WO07076547, WO06091473, WO0135217, WO0135217, WO0016217, USRE44814, US9898158, US9848276, US9798567, US9749693, US9736524, US9729678, US9678719, US9674287, US9658735, US9648143, US9635406, US9591251, US9575655, US9542912, US9479404, US9438953, US9426509, US9423936, US9402102, US9326025, US9319735, US9270743, US9213538, US9195936, US9191722, US9189361, US9177081, US9172987, US9166714, US9148703, US9147198, US9137579, US9128987, US9124932, US9113207, US9113107, US9092545, US9092503, US9092119, US9075861, US9052799, US9027058, US9015750, US9015749, US8973056, US8959480, US8935316, US8931008, US8924335, US8918807, US8893178, US8880487, US8869204, US8863170, US8843963, US8832742, US8806538, US8806536, US8793738, US8776125, US8752164, US8732757, US8726311, US8725801, US8700996, US8646005, US8635649, US8620769, US8615159, US8613020, US8612310, US8527615, US8473850, US8471782, US8453174, US8448209, US8422851, US8378970, US8359616, US8340130, US8336071, US8296441, US8285782, US8280810, US8272011, US8230096, US8200828, US8191009, US8191008, US8185605, US8181200, US8117560, US8073885, US8054241, US7996864, US7966390, US7966328, US7949728, US7941818, US7877155, US7834877, US7818367, US7809756, US7809639, US7797724, US7797336, US7791559, US7768543, US7747702, US7747010, US7716060, US7664775, US7623933, US7587413, US7577749, US7555529, US7523126, US7493641, US7487529, US7480929, US7480619, US7456832, US7421724, US7398541, US7363398, US7362381, US7360159, US7308699, US7269832, US7240289, US7225455, US7116822, US7085778, US6983418, US6950991, US6889377, US6877137, US6877033, US6816958, US6782538, US6782411, US6760784, US6751604, US6750858, US6728967, US6694486, US6633592, US6611751, US6594390, US6539441, US6499026, US6490633, US6473103, US6437803, US6412015, US6389434, US6384840, US6373528, US6344861, US6339767, US6332131, US6331877, US6292184, US6278438, US6202206, US6199125, US6195096, US6178487, US6154213, US6154209, US6118428, US6108759, US6104395, US6100888, US6088778, US6083270, US6081855, US6076106, US6054996, US6052130, US6040933, US6035300, US6029188, US6029169, US6018749, US5999191, US5995106, US5991820, US5991780, US5991751, US5960439, US5960168, US5956032, US5950214, US5940077, US5930831, US5901313, US5886694, US5878428, US5874957, US5873092, US5872568, US5872567, US5867708, US5867157, US5862252, US5859638, US5852810, US5848409, US5845301, US5838938, US5831608, US5828374, US5825355, US5819250, US5819090, US5818444, US5815394, US5809506, US5809240, US5806079, US5801691, US5799325, US5796951, US5784057, US5784045, US5781193, US5778357, US5774120, US5774119, US5771042, US5771036, US5768606, US5765153, US5761511, US5754845, US5748865, US5745718, US5745710, US5734882, US5731814, US5721849, US5699535, US5696963, US5686937, US5684970, US5682506, US5682489, US5680615, US5675781, US5668997, US5668965, US5666498, US5659788, US5659694, US5657221, US5655094, US5655066, US5651107, US5638523, US5629857, US5623681, US5623679, US5621456, US5619638, US5608860, US5602996, US5600779, US5596702, US5594509, US5592605, US5590325, US5586314, US5586305, US5583560, US5572649, US5572647, US5555370, US5553226, US5550967, US5548692, US5546520, US5544300, US5522025, US5491781, US5488685, US5483632, US5482050, US5469540, US5461716, US5430836, US5423039, US5414644, US5408650, US5404518, US5392388, US5379375, US5375199, US5349658, US5339393, US5327559, US5291595, US5289574, US5285526, US5276796, US5241655, US5121478, US2015097695, US2013191742, US2012144329, US2012023414, US2011154251, US2011112963, US2011010624, US2009313301, US2009259634, US2009178135, US2009102788, US2008294992, US2008163082, US2008120372, US2008068290, US20080621975, US2007299528, US2007211141, US2007195096, US2007179977, US2007079252, US2007038676, US2006291507, US2006244839, US2006190826, US2006161624, US2006161623, US2006161622, US2006070009, US2005262073, US2005228621, US2005184973, US2005177242, US2005160357, US2005044171, US2004243919, US2004220899, US2004210911, US2004130577, US2004130563, US2004117513, US2004064455, US2004024936, US2003187745, US2003135741, US2003084268, US2003030663, US2002196279, US2002171682, US2002060701, US2002002635, JP5088837, JP2939021, GB2314245, GB2305340, GB2305340, GB2237486, GB2237486, EP2002399, EP2002399, EP0868696, EP0867824, EP0867824, EP0862303, EP0675452, EP0675452, DE4033465, CN105159711, CN104331437, CN104331437,

Abstract:

Source: US5062060A [EN] In a computer human **interface** an adjustable "window" enables the **user** to view a portion of an abstract, device-independent "picture" description of information. More than one window can be opened at a time. Each window can be sized independently of another, regardless of the applications running on them. The human **interface** creates a separate "object" (represented by a process) for each active picture and for each active window. The pictures are completely independent of each other. That is, none is aware of the existence of any other, and any picture can be updated without reference to, and without affect upon, any other. The same is true of windows. Thus the visual entity seen on a **user's** screen is represented by two objects: a window (distinguished by its frame title, icons, etc.) and a picture which is (partially) visible within the boundaries of the window's frame. Multiple pictures can be updated simultaneously, and windows can be moved around on the screen and their sizes changed without the involvement of other windows or pictures. Also, such operations are performed without involving the application updating the window.



Title: OPERATOR ACCESS TO MONITORING APPLICATIONS**Priority:** US19870006514 19870123

Family:	Publication number	Publication date	Application number	Application date
	BRPI8800268 A	19880913	BR1988PI00268	19880125
	DE3855286 D1	19960620	DE19883855286	19880115
	EP0280020 A2	19880831	EP19880100514	19880115
	EP0280020 A3	19910904	EP19880100514	19880115
	EP0280020 B1	19960515	EP19880100514	19880115
	JP2759651 B2	19980528	JP19870319141	19871218
	JP63271568 A2	19881109	JP19870319141	19871218
	US4858152 A	19890815	US19870006514	19870123

Probable Assignee: RARITAN INC**Assignee(s):(std):** IBM**Assignee(s):** INT BUSINESS MACHINES ARMONK NEW YORK 10504 A CORP ; INT BUSINESS MACHINES ARMONK NEW YORK 10504 A CORP OF NY CORP ; INT BUSINESS MACHINES CORP ; INT BUSINESS MACHINES CORP ARMONK N Y US ; INTAANASHONARU BIJINESU MASHIINZU CORP ; INTERNATL BUSINESS MACH CORP ; INTERNATL BUSINESS MACH CORP IBM ; RARITAN COMPUTER INC ; WACHOVIA BANK ; RARITAN AMERICAS INC ; RARITAN INC ; RIIP INC**Inventor(s):(std):** ESTES MARK WILBOUR ; HALL HAROLD H ; HARORUDO EICHI HOORU ; MAAKU UIRUBOU ESUTESU ; ESTES MARK W**Inventor(s):** MARK W ESTES ; ESTES MARK WILBOUR DALLAS TX 75248 US ; MAAKU UIRUBO ESUTESU ; HAROLD H HALL**Designated states:** DE FR GB**International class (IPC 8-9):** G06F11/32 G06F15/16 G06F15/177 G06F17/40 G06F3/023 G06F3/048 G06F3/14 G06F3/16 H04Q9/00 (Advanced/Invention); G06F11/32 G06F15/16 G06F17/40 G06F3/023 G06F3/048 G06F3/14 G06F3/16 H04Q9/00 (Core/Invention)**International class (IPC 1-7):** G01F15/06 G06F11/32 G06F11/34 G06F13/14 G06F15/16 G06F15/74 G06F17/40 G06F3/14 H04Q9/00**CPC:** Y10S715/966 Y10S715/978 G06F3/04895 G06F3/16 G06F11/327 G06F11/328**European class:** G06F11/32S4 G06F11/32S6 G06F17/40 G06F3/0489G G06F3/16 T05K999/99**US class:** 340/721 345/589 345/966 345/978 364/138 364/185 364/521 364/550 700/80 700/9 702/186 702/188 714/E11.187 714/E11.188 715/966 715/978[Classification Explorer](#)**Cited documents:** US4718025 A, US4677427 A, US4663704 A, US4653112 A, US4648028 A, US4644478 A, US4622538 A, US4527247 A, US4471348 A, US4468750 A, US4375079 A, US4348739 A, JPS5870352, JP58070352 A2,**Forward Citations:** WO06064353, USRE38640, US9515998, US9235629, US9118720, US8935752, US8826443, US8813176, US8769394, US8751506, US8719698, US8713428, US8661498, US8613040, US8595849, US8566305, US8326965, US8312553, US8291121, US8255370, US8225371, US8065739, US8041719, US8011003, US7996385, US7996374, US7996373, US7995062, US7954062, US7886359, US7769566, US7712083, US7673344, US7631007, US7590702, US7519737, US7472114, US7299367, US7197431, US7181487, US7162510, US7146408, US7127633, US7062335, US7058693, US7043663, US7035898, US7032029, US7028204, US7023795, US7016933, US7003688, US6996741, US6883065, US6853867, US6845401, US6732191, US6661434, US6636243, US6600499, US6466995, US6434157, US6374293, US6327511, US6321263, US6289368, US6282454, US6262669, US6233626, US6199172, US6175832, US6141699, US6070190, US6049828, US6029145, US5978807, US5974237, US5943236, US5877764, US5835770, US5812750, US5751933, US5727157, US5720018, US5715389, US5675798, US5590056, US5559955, US5548704, US5504921, US5499340, US5452234, US5450601, US5446680, US5436909, US5404430, US5379377, US5371848, US5343557, US5333256, US5295244, US5270945, US5261044, US5251152, US5243543, US5231593, US5208745, US5179695, US5163129, US5155693, US5068798, US5067107, US2011099638, US2010332481, US2010162347, US2010083377, US2010042718, US2009300770, US2009300406, US2009228498, US2009228243, US2009106205, US2006230058, US2006224589, US2006184549, US2006150105, US2006136882, US2005102426, US2005086252, US2005044535, US2005027723, US2004210664, US2004210629, US2003222548, US2003177412, US2003139821, US2003055879, US2003033030, US2002194365, US2002169844, US2002167967, US2002091784, US2002026631, US2001007140, KR100914224, JP7200224, JP5181631, JP3257639, JP3003042, JP2607852, GB2377524, GB2377524, GB2330931, GB2330931, EP0529770,**Abstract:**

Source: US4858152A [EN] A **display** system and method is provided for gathering information from multiple CICS host applications and **displaying** the information on a single **display** screen. The information includes graphics, reports, and monitoring information. The **display** screens that the **user** is presented with are in a format that correspond to the host **display** screens that are commonly employed in large data processing (DP) centers. A host based status array is used to minimize the overhead of the communications between the host and the PC. The IBM 3270-PC or other microprocessor with a host communications **interface** receives existing, summarized information and reduces the information to a complete, accurate picture of the multiple applications that enables the operator to have timely information and respond effectively in a complex DP environment. The alarm information is organized to effectively call the operator's attention to a key problem quickly and efficiently. Key alarm messages can be designated as voice messages which are automatically translated and output as synthesized voice alerts. Threshold conditions can be called to the operators attention by specifying tolerances, that once exceeded, trigger an electronic tone of designated frequency and duration.

FIG. 1
PRIOR ART

Family:	Publication number	Publication date	Application number	Application date
	DE3887135 D1	19940224	DE19883887135	19880314
	DE3887135 T2	19940728	DE19883887135T	19880314
	EP0349582 A1	19900110	EP19880903096	19880314
	EP0349582 A4	19910724	EP19880903096	19880314
	EP0349582 B1	19940112	EP19880903096	19880314
	JP3500459 T2	19910131	JP19880502737T	19880314
	US4882683 A	19891121	US19870026041	19870316
	US4882683 B1	19951107	US19870026041	19870316
	WO8807235 A1	19880922	WO1988US00805	19880314

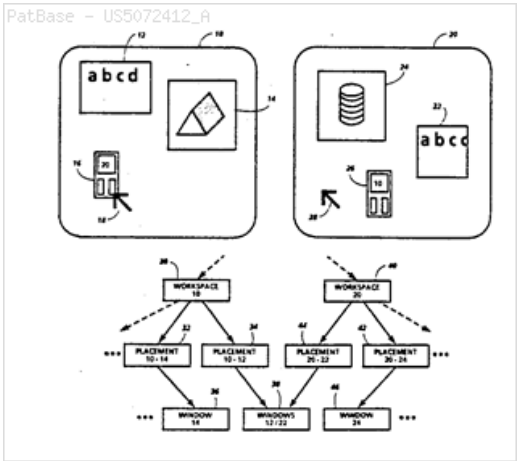
Title:	User interface with multiple workspaces for sharing display system objects																																											
Priority:	CA19880558772 19880212	US19870030766 19870325	US19910805343 19911209																																									
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Assignee(s):(std):	XEROX CORP																																											
Assignee(s):	MAXWELL JOHN T III ; BANK ONE NA ADMINISTRATIVE AGENT AS ; BANK ONE NA AS ADMINISTRATIVE AGENT ; CARD STUART K ; HENDERSON D AUSTIN JR ; IP INNOVATION LLC ; IP INNOVATION LLC 500 SKOKIE BLVD ; JPMORGAN CHASE BANK AS COLLATERAL AGENT ; JPMORGAN CHASE BANK COLLATERAL AGENT AS ; MEGA HOLDINGS INC ; TECHNOLOGY LICENSING CORP																																											
Inventor(s):(std):	SUCHIYUAAATO KEI KAADO ; MAXWELL JOHN T III ; MAXWELL III JOHN T ; HENDERSON JR D AUSTIN ; HENDERSON D AUSTIN JR ; CARD STUART K ; JIYON TEII MATSUKUSUUERU ZA SA ; DEII OOSUTEIN HENDAASON JIYUNI																																											
Inventor(s):	MAXWELL JOHN T ; JIYON TEII MATSUKUSUUERU ZA SAADO ; DEII OOSUTEIN HENDAASON JIYUNIA																																											
Agent(s):	SIM AND MCBURNEY																																											
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CPC:	G06F9/451 G06F3/0483 G06F3/0481																																											
European class:	G06F3/033A1B G06F3/0481 G06F3/0483 G06F9/44W																																											
US class:	395/158 395/159 715/788 715/804 715/835 715/853 715/854 719/310 719/315 719/328																																											
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Cited documents:	US5394521 A, US5233687 A, US5129055 A, US5088052 A, US5072412 A, US5025395 A, US4962475 A, US4914568 A, US4905168 A, US4885717 A, US4823108 A, US4807142 A, US4806919 A, US4783648 A, US4769636 A, US4713754 A, US4695966 A, US4692858 A, US4688167 A, US4658351 A, US4649499 A, US4601003 A, US4598384 A, US4574364 A, US4555775 A, US4542376 A, US4484302 A, JPS63229518, JP63229518 A2, EP0273248 A2, EP0249399 B1, EP0108520 A2,																																											
Forward Citations:	WO9844431, WO9844431, WO9612222, WO9610782, WO9211602, WO16179401, WO16089465, WO13113078, WO0206966, WO0171491, WO0171491, WO0057257, WO0057257, USRE42414, USRE40645, USRE36444, USD792908, USD677273, USD667448, USD667426, USD593108, USD521522, USD519520, US9912516, US9894115, US9886727, US9881094, US9848276, US9843720, US9825898, US9798448, US9792584, US9767161, US9749693, US9747556, US9747017, US9736524, US9736106, US9715485, US9710444, US9679404, US9658732, US9648279, US9635406, US9626370, US9626098, US9614813, US9613340, US9600400, US9600141, US9591251, US9589057, US9575707, US9575640, US9552131, US9542202, US9519398, US9513797, US9507814, US9507610, US9507609, US9501205, US9489657, US9477849, US9473512, US9460096, US9438953, US9436685, US9432323, US9426509, US9424444, US9423936, US9418054, US9402102, US9400593, US9384198, US9367435, US9363338, US9329766, US9329744, US9326025, US9325759, US9319735, US9317515, US9310907, US9292196, US9280320, US9268775, US9268760, US9251506, US9239821, US9229917, US9229612, US9213708, US9210234, US9201491, US9191722, US9189250, US9177081, US9176943, US9172987, US9172669, US9170990, US9166714, US9148703, US9147198, US9141937, US9141272, US9137579, US9128987, US9124932, US9113207, US9113107, US9098182, US9092636, US9092545, US9092503, US9081872, US9081494, US9075861, US9063942, US9063932, US9043712, US9027058, US9026921, US9020989, US9015750, US9015749, US8996621, US8983929, US8973056, US8972879, US8935316, US8931008, US8924893, US8918807, US8918729, US8909915, US8893178, US8893017, US8892993, US8881025, US8869204, US8868498, US8863170, US8863016, US8856074, US8849869, US8843963, US8839142, US8839116, US8832742, US8832585, US8825502, US8819072, US8806538, US8806536, US8805927, US8799826, US8793738, US8793232, US8782555, US8780069, US8776125, US8775196, US8769443, US8768885, US8766928, US8738670, US8732757, US8731973, US8726311, US8725547, US8719728, US8701091, US8700682, US8688474, US8683380, US8677460, US8677268, US8677260, US8677022, US8671213, US8670600, US8667161, US8650607, US8646005, US8635649, US8634807, US8620769, US8620020, US8615557, US8615159, US8613020, US8612884, US8612310, US8560580, US8559874, US8555080, US8554627, US8548855, US8548382, US8543935, US8543926, US8543460, US8539386, US8539385, US8538997, US8531480, US8527615, US8522313, US8521720, US8510673, US8503936, US8487879, US8473847, US8473835, US8473511, US8471782, US8464173, US8464161, US8458617, US8456431, US8453174, US8452751, US8448209, US8443040, US8429540, US8429522, US8429208, US8428968, US8423673, US8422851, US8406456, US8396900, US8375087, US8370751, US8359616, US8359331, US8352513, US8341532, US8340130, US8336071, US8306976, US8296441, US8291324, US8291121, US8290907, US8290902, US8286171, US8285782, US8272011, US8234245, US8234128, US8230096, US8229913, US8229889, US8205160, US8200975, US8200828, US8191008, US8190638, US8190566, US8185736, US8181200, US8179382, US8171169, US8166065, US8156123, US8156106, US8156104, US8150837, US8150826, US8145701, US8140370, US8135727, US8131817, US8131816, US8131775, US8131674, US8099389, US8095506, US8078960, US8074217, US8054241, US8050944, US8046825, US8046683, US8020105, US8010515, US8001459, US7996864, US7979856, US7979294, US7971139, US7970799, US7966390, US7966328, US7962482, US7962449, US7954066, US7949728, US7949633, US7945595, US7941818, US7937651, US7925621, US7921372, US7913159, US7904801, US7900134, US7873630, US7865477, US7861186, US7861167, US7840691, US7836136, US7831931, US7827139, US7818677, US7814421, US7810144, US7810038, US7805473, US7797336, US7791559, US7779343, US7779027, US7774620, US7774326, US7774215, US7765263, US7756723, US7743063, US7734479, US7730012, US7725834, US7721190, US7720695, US7716066, US7716060, US7712048, US7712022, US7702997, US7693856, US7692636, US7689929, US7689921, US7680885, US7680879, US7676843, US7673227, US7672962, US7630971, US7624356, US7624354, US7617225, US7617130, US7613996, US7613689, US7610915, US7610562, US7590702, US7584417, US7584278, US7581177, US7568101, US7555529, US7549115, US7543228, US7536554, US7533353, US7533268, US7523390, US7523126, US7519737, US7516399, US7516145, US7512896, US7509583, US7509353, US7506243,																																											

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Abstract:

Source: US5072412A [EN] Workspaces provided by an object-based **user interface** appear to share windows and other **display** objects. Each workspace's data structure includes, for each window in that workspace, a linking data structure called a placement which links to the **display** system object which provides that window, which may be a **display** system object in a preexisting window system. The placement also contains **display** characteristics of the window when **displayed** in that workspace, such as position and size. Therefore, a **display** system object can be linked to several workspaces by a placement in each of the workspaces' data structures, and the window it provides to each of those workspaces can have unique **display** characteristics, yet appear to the **user** to be the same window or versions of the same window. As a result, the workspaces appear to be sharing a window. Workspaces can also appear to share a window if each workspace's data structure includes data linking to another workspace with a placement to the shared window. The **user** can invoke a switch between workspaces by selecting a **display**

object called a door, and a back door to the previous workspace is created automatically so that the **user** is not trapped in a workspace. A **display** system object providing a window to a workspace being left remains active so that when that workspace is reentered, the window will have the same contents as when it disappeared. Also, the placements of a workspace are updated so that when the workspace is reentered its windows are organized the same as when the **user** left that workspace. The **user** can enter an overview **display** which shows a representation of each workspace and the windows it contains so that the **user** can navigate to any workspace from the overview.



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Assignee(s):(std):	KODAK LTD ; WANG LABORATORIES																																																																																															
Assignee(s):	WANG LABORATORIES INC ; WANG LAB INC ; SURPRENANT CAROLYN E ; STERN LAURA O ; KODAK LTD HEMEL HEMPSTEAD HERTFORDSHIRE GB ; SOUCIE MARC SAN ; PHAM LY HUONG THI ; KHOYI DANA ; CONGRESS FINANCIAL NEW ENGLAND CORP ; CONGRESS FINANCIAL CORP ; EASTMAN KODAK CO ; KODAK LIMITED ; BT COMMERCIAL (AS AGENT) CORP ; BT COMMERCIAL AS AGENT CORP ; BT COMMERCIAL CORP ; BT COMMERCIAL CORP ; CONGRESS FINANCIAL (NEW ENGLAND) CORP																																																																																															
Inventor(s):(std):	DANA KOOI ; KHOYI DANA ; KIYARORAIN II SAPURINANTO ; PHAM LY HOUNG T ; PHAM LY HUONG T ; PHAM LY HUONG THI ; RIIFUON SHI FUAMU ; ROORA OO SUTAAN ; SAN SOUCIE MARC ; SOUCIE MARC S ; SOUCIE MARC SAN ; STERN LAURA O ; SURPENANT CAROLYN E ; SURPPENANT CAROLYN E ; SURPRENANT CAROLYN E ; SUPRENANT CAROLYN E ; SOUCIE MARC SAN ; MAAKU SAN SOUSHII																																																																																															
Inventor(s):	MARC SAN SOUCIE ; SOUCIE MARC SAN PORTLAND OREGON 97229 US ; SOUCIE MARC SAN TYNGSBORO MA 01879 US ; PHAM LY HUONG THI CHELMSFORD MA 01824 US ; LAURA O STERN ; LY HUONG THI PHAM ; CAROLYN E SUPRENANT ; DANA KHOYI ; KHOYI DANA DRACUT MA 01826 US ; KHOYI DANA MASSACHUSETTS 01886 US																																																																																															
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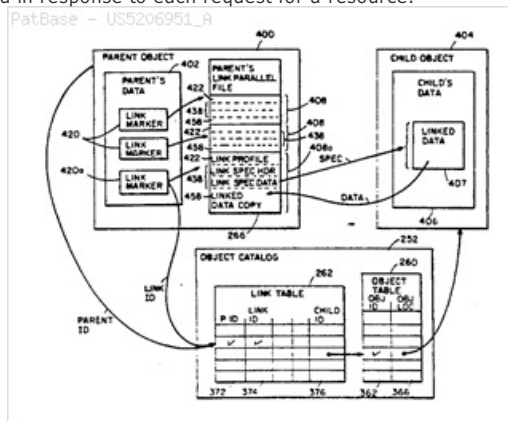
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Abstract:

Source: US5206951A [EN] An object based data processing system including an extensible set of object types and a corresponding set of "object managers" wherein each object manager is a program for operating with the data stored in a corresponding type of object. The object managers in general support at least a standard set of operations. Any program can effect performance of these standard operations on objects of any type by making an "invocation" request. In response to an invocation request, object management services (which are available to all object managers) identifies and invokes an object manager that is suitable for performing the requested operation on the specified type of data. A mechanism is provided for linking data from one object into another object. An object catalog includes both information about objects and about links between objects. Data interchange services are provided for communicating data between objects of different types, using a set of standard data interchange formats. A matchmaker facility permits two processes that are to cooperate in a data interchange operation identify each other and to identify data formats they have in common. A facility is provided for managing shared data "resources". Customized versions of resources can be created and co-exist with standard resources. A resource retrieval function determines whether a customized or a standard resource is to be returned in response to each request for a resource.



Title: MOTION DETECTOR

Priority: CA19890593214 19890309 CA19890600624 19890525 EP19890906240 19890518
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Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: GLOBAL 360 INC

Assignee(s):(std): LECTRON PRODUCTS ; KODAK LTD ; WANG LABORATORIES

Assignee(s): WELLS FARGO FOOTHILL INC ; WANG LABORATORIES INC A CORP OF MA ; WELLS FARGO FOOTHILL INC AGENT AS ; OPEN TEXT SA ; SCHIRPKE MICHAEL W ; OPEN TEXT ULC SA ; OT IP SUB LLC ; KODAK LTD HEMEL HEMPSTEAD HERTFORDSHIRE GB ; KODAK LTD HEMEL HEMPSTEAD HERTS ; KODAK LTD HEMEL HEMPSTEAD ; LEVINE STEPHEN R ; HARUI ALEX J ; HSIAO CHIA CHUAN ; KNOWLTON KENNETH C ; MAPLES DAVID T ; IP OT SUB ULC ; WANG LABORATORIES INC ; KODATSUKU LTD ; KODAK LIMITED ; FIRST NATIONAL BANK OF BOSTON ; GLOBAL 360 INC ; LECTRON PRODUCTS INC A MI CORP ; GLOBAL 360 BGS INC ; OPEN TEXT S A ; AJGAONKAR DONNA ; BOYLAN STEPHEN P ; BT COMMERCIAL (AS AGENT) CORP ; BT COMMERCIAL AS AGENT CORP ; BT COMMERCIAL CORP ; EASTMAN KODAK CO ; EASTMAN KODAK COMPANY ; CONGRESS FINANCIAL CORP ; BT COMMERCIAL CORP ; EISOLUTIONS INC ; EISTREAM TECHNOLOGIES INC ; CONGRESS FINANCIAL (NEW ENGLAND) CORP ; CONGRESS FINANCIAL NEW ENGLAND CORP ; DONOGHUE KAREN ; EI SOLUTIONS INC ; LECTRON PRODUCTS INC

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Agent(s): FB RICE; FB RICE PTY LTD; MACRAE AND CO; SMART AND BIGGAR

Designated states: AT AU BE BR CH DE DK FI FR GB IT JP KR LI LU NL NO SE SU

International class (IPC 8-9): G01P13/00 G06F13/12 G06F13/14 G06F17/21 G06F17/22 G06F17/24 G06F17/30 G06F3/023 G06F3/033 G06F3/041 G06F3/048 G06F3/0481 G06F3/0483 G06F3/0488 G06F3/14 G06Q10/00 G06Q10/10 G06T11/60 H01H35/02 H01H35/06 (Advanced/Invention); G06F17/21 G06F17/22 G06F17/30 G06F3/041 G06F3/048 G06F3/14 G06T11/60 (Advanced/Non-invention); G01P13/00 G06F G06F3/023 G06F3/033 G06F3/048 G06Q10/00 H01H35/02 (Core/Invention); G06F (Subclass/Invention)

International class (IPC 1-7): G06F13/12 G06F13/14 G06F15/00 G06F15/16 G06F15/21 G06F15/40 G06F15/401 G06F15/62 G06F15/68 G06F17/60 G06F3/00 G06F3/02 G06F3/023 G06F3/03 G06F3/033 G06F3/037 G06F3/14 G06K11/06 G06K9/62 G06K9/80 G06T11/60 G06T3/40 H01H35/06 H01H35/14 H04N1/00

CPC: G06F3/0488 G06F17/241 Y10S200/29 G06F3/0483 G06F3/033 G06Q10/10 G06T3/0012 G01P13/00 G06F3/04817 H01H35/02

European class: G01P13/00 G06F17/24A G06F3/033 G06F3/0481H G06F3/0483 G06F3/0488 G06Q10/10 G06T3/00C H01H35/02

US class: 200/61.45R 200/61.52 200/DIG.29 345/350 345/351 345/356 345/428 345/614 345/670 358/408 364/200 364/225.6 364/236.8 364/237.1 364/237.2 364/927.2 364/927.632 364/DIG.1 364/DIG.2 379/100.01 382/299 382/47 395/128 395/132 395/135 395/139 395/159 395/761 395/773 395/800 709/217 715/201 715/203 715/233 715/234 715/500 715/512 715/514 715/526 715/541 715/769 715/775 715/776 715/777 715/837 715/838 715/854

[Classification Explorer](#)

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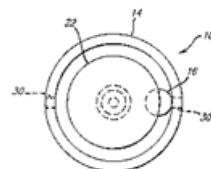
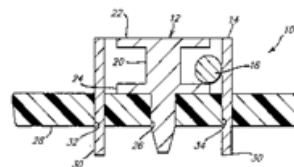
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Abstract:

Source: US4833281A [EN] A motion detector particularly adapted for use with the transmitter of a motor vehicle keyless entry system. The motion detector causes the transmitter device carried by the **user** to transmit a coded signal when it is in motion, for example, as it is being carried by a **user** toward the vehicle. The motion detector includes a spool surrounded by and electrically insulated from a shell. A ball is positioned in the annular cavity around the spool. Associated electronics are provided to sense a change in state of the motion detector as an indication of motion. Changes of state of the motion detector occur when the ball moves into and out of direct contact with the spool or shell and further as the ball rolls around the annular cavity while being supported by both the spool and shell caused by surface roughness of the **interface** surfaces.

PatBase - US4833281_A

U.S. Patent May 23, 1989 4,833,281



Title:

REPRESENTATION OF COLLABORATIVE MULTI-USER ACTIVITIES RELATIVE TO SHARED STRUCTURED DATA OBJECTS IN A NETWORKED WORKSTATION ENVIRONMENT

Priority:

US19870127993 19871202 US19910685361 19910415

Family:

Publication number	Publication date	Application number	Application date
DE3854994 D1	19960321	DE19883854994	19881128
DE3854994 T2	19961114	DE19883854994T	19881128
EP0319232 A2	19890607	EP19880311268	19881128
EP0319232 A3	19921119	EP19880311268	19881128
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US5008853 A	19910416	US19870127993	19871202
US5220657 A	19930615	US19910685361	19910415

Probable Assignee:

XEROX A CORP OF NY CORP

Assignee(s):(std):

XEROX CORP

Assignee(s):

JPMORGAN CHASE BANK AS COLLATERAL AGENT ; XEROX CORP ROCHESTER N Y US ; BANK ONE NA ADMINISTRATIVE AGENT AS ; BANK ONE NA AS ADMINISTRATIVE AGENT ; JPMORGAN CHASE BANK COLLATERAL AGENT AS ; XEROX A CORP OF NY CORP

Inventor(s):(std):

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Designated states:

DE FR GB

International class (IPC 8-9):

G06F12/00 G06F13/00 G06F15/00 G06F17/21 G06F17/30 G06F9/46 G06Q10/00 G06Q10/10 (Advanced/Invention); G06F12/00 G06F13/00 G06F15/00 G06F17/21 G06F17/30 G06F9/46 G06Q10/00 (Core/Invention)

International class (IPC 1-7):

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CPC:

G06F17/30171 G06Q10/10

European class:

G06F17/30C G06F17/60A G06Q10/10

US class:

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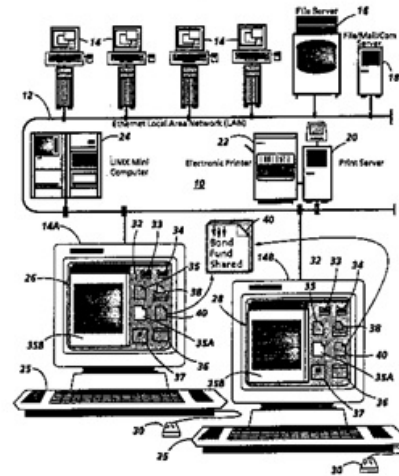
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Abstract:

Source: US5008853A [EN] A multi-**user** collaborative system in which the contents as well as the current status of other **user** activity of a shared structured data object (40) representing one or more related structured data objects in the form of data entries can be concurrently accessed by different **users** respectively at different workstations (14) **connected** to a common link (12). The what-you-see-is-what-I-see **user interface** representation of the shared structured data object includes an ordered listing of such entries that are maintained by the structured data object, and various attributes of each listed entry, inter alia, the type and class of entry; the revision number of the shared structured data object; the number of pages and revision number of each structured data object entry; the date of creation and last revision of each such entry; whether an entry can be accessed by a **user** and, if not, who has prevented such access; whether a local instance of an entry is present on a **user's** system; and a provision for miscellaneous notes or comments relative to each entry for view by other **users**. Means is provided for maintaining current information relative to the shared structured object and its entries on a **user** initiated demand updated basis invoked by a **user** operation, which operation requires updated information to implement the operation properly. Further, means is provided for locking up one or more data entries by an individual **user**, and thereby preventing access to the locked entries by other **users**, to prevent concurrent editing and other changes to the same entries by two or more **users**. In this **connection**, editing or modification cannot be performed by a **user** until the shared structured data object entry or entries have been locked up. Visual indication as to the locked state of entries, and other information relative to the locking **user** and the time of lock, are updated and **displayed** in the shared structured data object representation present at **user** workstations when a **user** invokes a **user** operation on the shared structured data object or its contents.



Title:

MICROPROCESSOR-CONTROLLED CIRCUIT BREAKER AND SYSTEM

Priority:

US19880175992 19880331 US19900587361 19900924 US19910626669 19910205
US19920833637 19920210 US19910624011 19910128 US19900624439 19901207
WO1989US01363 19890331 US19950397540 19950228 US19930144089 19931027

Family:

Publication number	Publication date	Application number	Application date
AU198934101 A1	19891016	AU19890034101	19890331
US4996646 A	19910226	US19880175992	19880331
US5166887 A	19921124	US19910624011	19910128
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US5524083 A	19960604	US19950397540	19950228
WO8909456 A1	19891005	WO1989US01363	19890331

Probable Assignee:

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Assignee(s):(std):

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Designated states:

AU DE FR GB IT JP KR

International class (IPC 8-9):

H02H3/00 H02H3/04 (Advanced/Invention);
H02H3/00 H02H3/02 (Core/Invention)

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G01R19/00 G05B15/00 G06F15/46 G06F15/56

CPC:

Y02B70/3241 Y02B90/224 Y04S20/14 Y04S20/227 H02H3/04 H01H2071/006 H01H2300/03 H02H3/00 Y10T307/878 Y10T307/832 Y10T307/944

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H02H3/00 H02H3/04 T01H300/030 T01H71/00D

US class:

307/126 307/132E 307/140 340/657 361/115 361/71 361/94 364/134 364/481 364/483 364/492 700/292 700/293 700/294 700/297

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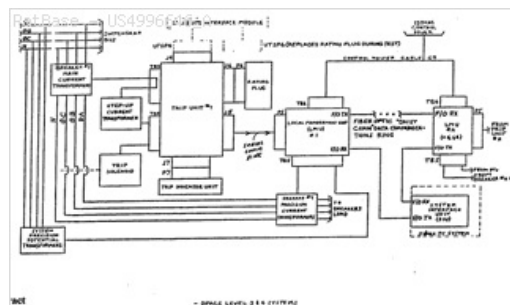
Forward Citations:

WO9963636, WO9526062, WO9400899, WO9313465, WO9307597, WO9211676, WO9209899, WO9200624, WO14200862, WO12112924, WO10019363, WO07104048, WO06004447, WO04061462, WO03096506, WO03079511, WO03073572, WO03073572, WO03056350, WO03025878, WO03025878, WO0237653, WO0237653, US9903895, US9893455, US9885360, US9853400, US9793068, US9777733, US9775043, US9755458, US9726184, US9712098, US9693667, US9605680, US9568005, US9556874, US9551752, US9551344, US9535413, US9491872, US9488714, US9488689, US9482555, US9438026, US9404500, US9399992, US9385522, US9373952, US9371829, US9348329, US9328727, US9293288, US9287074, US9276394, US9194898, US9136692, US9134720, US9118206, US9080894, US9077353, US9051930, US9013852, US9000611, US8930153, US8907664, US8892218, US8878517, US8862435, US8860353, US8860248, US8840376, US8816651, US8810983, US8810062, US8801389, US8797720, US8797202, US8744788, US8732895, US8700347, US8666688, US8649143, US8602745, US8602743, US8573952, US8564233, US8542473, US8540493, US8525492, US8516653, US8513925, US8500413, US8480373, US8469675, US8465262, US8444394, US8436559, US8378844, US8363387, US8360736, US8354809, US8353678, US8344724, US8282361, US8281425, US8271146, US8248762, US8233254, US8213144, US8190381, US8177520, US8177519, US8160824, US8133034, US8121801, US8116919, US8116070, US8106765, US8106670, US8096014, US8089026, US8085002, US8026891, US8018089, US7999416, US7996171, US7992014, US7982331, US7958594, US7956584, US7900315, US7899630, US7889474, US7888601, US7880331, US7855466, US7747356, US7729138, US7706927, US7690897, US7687929, US7672104, US7668624, US7646575, US7636616, US7633399, US7630186, US7612654, US7598623, US7570471, US7554454, US7532955, US7526393, US7521822, US7516106, US7492562, US7492062, US7480549, US7453368, US7441173, US7418428, US7403360, US7400986, US7379997, US7369417, US7343226, US7337081, US7319922, US7301738, US7298110, US7254001, US7151329, US7132708, US7130719, US7130719, US7129688, US7126493, US7124307, US7124307, US7117105, US7111195, US7072779, US7068612, US7068483, US7058482, US7058481, US7043340, US7038423, US7015601, US7010438, US6999291, US6995545, US6985784, US6967305, US6937134, US6909942, US6892145, US6892115, US6891478, US6873504, US6832339, US6813525, US6788512, US6778369, US6754066, US6731487, US6710482, US6701221, US6700356, US6684134, US6678137, US6650969, US6577963, US6555929, US6539287, US6512380, US6459557, US6426634, US6423143, US6405104, US6385022, US6351692, US6292717, US6216956, US6181331, US6175780, US6169651, US6167329, US6136269, US6075368, US6067483, US5936495, US5924486, US5899960, US5892449, US5861683, US5844550, US5825643, US5821876, US5819203, US5793596, US5793595, US5768079, US5734207, US5706153, US5701070, US5691871, US5642003, US5638051, US5581433, US5574653, US5524083, US5498956, US5490086, US5475558, US5471359, US5469365, US5448442, US5428553, US5428551, US5426592, US5420799, US5390068, US5386183, US5384712, US5369356, US5347417, US5335135, US5315531, US5311392, US5309361, US5278771, US5249115, US5245275, US5231565, US5214560, US5206572, US5164875, US5089928, US5058031, US2017103861, US2016345175, US2015198667, US2015180280, US2014362486, US2014278179, US2014176117, US2014146431, US2014104737, US2014103905, US2014071577, US2013222963, US2013155626, US2013123991, US2013049486, US2012262195, US2012236442, US2012209552, US2012182660, US2012101752, US2012089267, US20111227408, US20111215641, US2011202688, US2011202147, US2011202145, US2011130887, US2011110021, US2011091329, US2011076156, US2011052416, US2010324845, US2010310382, US2010259859, US2010254825, US2010254053, US2010244563, US2010232981, US2010187081, US2010128404, US2010127691, US2010082173, US2010080714, US2010068073, US2010053833, US2010038228, US2010010684, US2009290990, US2009256427, US2009230779, US2009228224, US2009206714, US2009164824, US2009082980, US2009012728, US2008277945, US2008235355, US2008215264, US2008212342, US2008184519, US2008172192, US2008164850, US2008158785,

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Abstract:

Source: US4996646A [EN] A circuit breaker system uses a microprocessor for calculating at least one function of a measured current flow. The microprocessor provides other functions such as serial data stream communications, the ability of many circuit breaker systems to communicate with a central computer, storage of trip information concerning the last trip, storage of historical trip information concerning a number of past trips, EEPROM memory for storing trip information, the microprocessor may inhibit tripping on a high current fault to permit storage of trip information into a memory, power is derived from current transformers drawing energy from current flow to a load and the electronics are protected from high voltage caused by heavy current flow to the load, optical isolators are used for the circuit breaker to communicate with external equipment, a multi-turn resistor adjusts an external test voltage for testing the circuit breaker system, in the event that there is no load or a load drawing insufficient current to provide power for the electronics the circuit breaker may be externally powered to provide readout of electrically erasable programmable read only memory, the microprocessor reads setting switches and a multiplier plug. Also the microprocessor is capable of digitizing selected quantities frequently and of digitizing other quantities less frequently. A second microprocessor permits one microprocessor to sampler voltage and current rapidly for metering purposes, and the second microprocessor operates other functions.



Title: MULTI-LANE BOWLING SYSTEM WITH REMOTE OPERATOR CONTROL

Priority: AU19890032477 19890405 AU19910083617 19910902 AU19930044204 19930726
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Family:	Publication number	Publication date	Application number	Application date
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Probable Assignee: INTELLITEC INT INC A DE CORP**Assignee(s):(std):** BRUNSWICK BOWLING ; BRUNSWICK BOWLING AND BILLIARDS ; BRUNSWICK BOWLING AND BILLARDS C ; BRUNSWICK BOWLING AND BILLIARDS CORP**Assignee(s):** BRUNSWICK BOWLING AND BILLARDS CORP ; BRUNSWICK COMMERCIAL AND GOVERNMENT PRODUCTS INC ; BRUNSWICK CORP ; BRUNSWICK FAMILY BOAT CO INC ; BRUNSWICK BOWLING AND BILLIARDS A CORP OF DE CORP ; BRUNSWICK BOWLING AND BILLIARDS A DE CORP CORP ; BRUNSWICK BOWLING AND BILLIARDS CORP MUSKEGON ; BRUNSWICK BOWLING AND BILLIARDS CORP MUSKEGON MICH US ; BRUNSWICK COMMERCIAL AND GOVERNMENT PRODUCTS INC ; NUVATEC INC ; INTELLITEC INT ; JPMORGAN CHASE BANK NA ; BRUNSWICK LEISURE BOAT CO LLC ; LAND N SEA DISTRIBUTING INC ; LUND BOAT CO ; TRITON BOAT CO LP ; JPMORGAN CHASE BANK NA ADMINISTRATIVE AGENT AS ; INTELLITEC INT INC A DE CORP ; NUVATEC INC A DE CORP ; GLADSTONE INVESTMENT CORP ; PNC BANK NATIONAL ASSOCIATION ; ATTWOOD CORP ; BANK OF NEW YORK MELLON TRUST CO ; BANK OF NEW YORK MELLON TRUST CO NA ; BOSTON WHALER INC ; BRUNSWICK BOURINGU AND BIRIYAAZU CORP**Inventor(s):(std):** BARCZYK VICTOR ; BARCZYK VICTOR S ; BARCZYK VICTOR STANISLAWS ; BARCZYK VIKTOR S ; BIKUTAA ESU BAAKUTSUITSUKU ; BRIM TED E ; BRUCE NORMAN ALLESHOUSE ; BURUUSU ENU ARISUHAUSU ; DAVID CARL WYLAND ; DAVID JOSEPH MUELLER ; DAVID LLOYD MOWERS ; DEIBITSUDO ERU MAUAZU ; DEIBITSUDO JIEI MIYUURAA ; DEIBITSUDO SHII WAIRANDO ; DEMAR LAWRENCE E ; DEMAR LAWRENCE EDWARD ; DUDZINSKI GARY ; DUSSAULT PAUL G ; DUSSAULT PAUL GERARD ; GAUTRAUD MICHAEL G ; GEERII DADOJINSUKII ; GERALD A PIERCE ; GERALD APFFEL PIERCE ; JIERARUDO EI PIASU ; LAMANTIA SANTO A ; LAMANTIA SANTO ANTHONY ; LAMANTIA SANTO O ; LAWRENCE E DEMAR ; LAWRENCE EDWARD DEMAR ; MAIKERU JII GOOTORAUDO ; MOWERS

DAVID L ; MOWERS DAVID L C O BRUNSWICK B ; PAUL GERARD DUSSAULT ; PIERCE GERALD A ; PIERCE GERALD A C O SRI INTERN ; PIERCE GERALD APFFEL ; POORU JII DEYUUSOURUTO ; ROORENSU II DEMARU ; SANTO ANTHONY LAMANTIA ; SANTO EI RAMANCHIA ; TETSUDO II BURIMU ; VICTOR STANISLAWS BARCZYK ; WYLAND DAVID C ; WYLAND DAVID CARL ; MOWERS DAVID LLOYD ; MUELLER DAVID J ; MUELLER DAVID JOSEPH ; ALLESHOUSE BRUCE N ; ALLESHOUSE BRUCE NORMAN

Inventor(s): AND MOWERS DAVID L C O BRUNSWICK BOWLING ; NAME NOT GIVEN ; MOWERS DAVID L C O BRUNSWICK BOWLING ; MOWERS DAVID L C O BRUNSWICK BOWLING AMP AMP ; MOWERS DAVID L C O BRUNSWICK BOWLING MUSKEGON MICH ; MOWERS DAVID L C O BRUNSWICK BOWLING MUSKEGON MICHIGAN 49443 US

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD

Designated states: AT BE CH DE ES FR GB GR IT LI LU NL SE

International class (IPC 8-9): A63B69/00 A63B69/40 A63D1/00 A63D1/06 A63D3/00 A63D5/00 A63D5/04 A63D5/06 A63D5/08 G06F17/60 G06F19/00 G06F3/14 H04N5/14 H04N7/18 (Advanced/Invention); A63B69/00 A63B69/40 A63D3/00 (Advanced/Non-invention); A63D5/00 H04N5/14 H04N7/18 (Core/Invention)

International class (IPC 1-7): A63B69/00 A63D1/00 A63D1/06 A63D3/00 A63D5/00 A63D5/04 A63D5/06 A63D5/08 G06F15/16 G06F15/20 G06F15/44 G06F16/00 G06F17/40 G06F17/60 G06F19/00 G06F9/46 H04N5/14 H04N7/00 H04N7/18

CPC: A63D1/00 A63D5/04 A63D5/08 A63D2005/042 G06F3/1423 G09G2360/04

European class: A63D1/00 A63D5/04 A63D5/08 G06F3/14C K63D5/04A S09G360/04

US class: 273/54C 340/323.00R 340/323B 340/323R 364/410 364/411 395/650 473/101 473/54 473/55 473/57 473/58 473/65 473/70 473/73 473/86 700/91 700/92 718/107

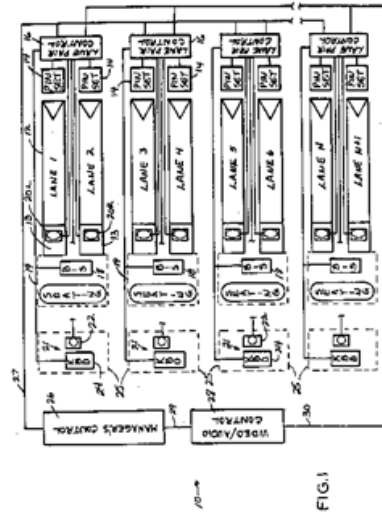
[Classification Explorer](#)

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Abstract:

Source: US5101354A [EN] A bowling center system includes a plurality of lane pair control systems each including a pin setting device for each lane, a pin setter control unit, a game control unit, a bowler input station and a pair of overhead **display** monitors. The game control unit is operable under the control of a game control program stored in a memory for automatically operating the pin setter control units during game play to selectively set a sequence of pin patterns on the lane. A manager's control system is coupled to each of the lane pair control systems and includes a bowler input station similar to the game control unit bowler input station. The manager's control system is electrically **connected** for communication with the game scoring unit, and switching circuitry is provided for selectively coupling the manager's control system bowler input station to a select one of the game score control units so that the manager's control system bowler input station **interfaces** with the operation of the bowling game for the selected game control unit.



Title:

Sobriety interlock with bypass detection

Priority:

CA19890602150 19890608 CA19890606758 19890726 US19880209091 19880617
WO1989US01954 19890504 WO1989US03073 19890717 US19880231887 19880812

Family:

Publication number	Publication date	Application number	Application date
AU198935787 A1	19900112	AU19890035787	19890504
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CA1316580 A1	19930420	CA19890606758	19890726
CA1334997 A1	19950328	CA19890602150	19890608
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EP0486486 A4	19910923	EP19890905943	19890504
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WO8912879 A1	19891228	WO1989US01954	19890504
WO9001698 A1	19900222	WO1989US03073	19890717

Probable Assignee:

SHERAM ENTERPRISES INC

Assignee(s):(std):

GUARDIAN TECH INC ; GUARDIAN INTERLOCK SYSTEMS COR

Assignee(s):

GUARDIAN INTERLOCK SYSTEMS CORP ; GUARDIAN TECHNOLOGIES INC ; SHERAM ENTERPRISES INC ; GUARDIAN TECHNOLOGIES INC A CORP OF COLORADO ; JEWITT JEFFREY C ; QUAST HERMAN ; 936497 ONTARIO LTD ; CMI TECHNOLOGIES INC ; COMEAU FELIX J E ; COMEAU FELIX JE

Inventor(s):(std):

JEWITT JEFFREY C ; QUAST HERMAN ; COMEAU FELIX J E

Inventor(s):

COMEAU FELIX J ; COMEAU FELIX JE ; FELIX JE COMEAU ; JEFFREY C JEWITT ; HERMAN QUAST ; FELIX J E COMEAU

Agent(s):

SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; SMART AND BIGGAR

Designated states:

AT AU BE CH DE FR GB IT JP LI LU NL SE

International class (IPC 8-9):

B60K28/06 G01N33/497 G08B21/00 (Advanced/Invention);
B60K28/00 (Core/Invention)

International class (IPC 1-7):

G01N33/00 G01N33/48 G08B21/00

CPC:

Y10S436/90 B60K28/063 G01N33/4972 Y10T436/204165

European class:

B60K28/06B G01N33/497A

US class:

180/272 307/10.6 340/576 422/84 436/132 436/900

Classification Explorer

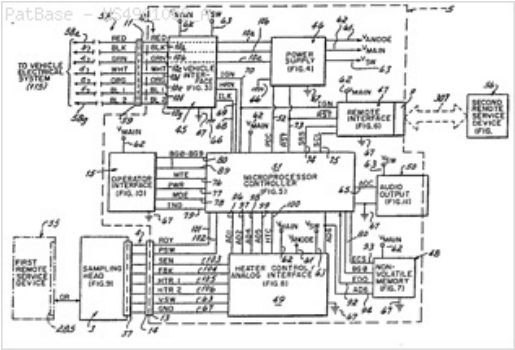
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Forward Citations:

WO9731797, WO07134042, WO07134040, WO06116290, WO06116278, WO06116187, WO06116186, WO05098777, WO04018249, WO03057521, USRE39747, US9901288, US8590363, US8267215, US7779782, US7749169, US7720597, US7658255, US7481292, US7422723, US7413047, US7377352, US7299890, US7287617, US7256700, US7218236, US7204335, US6967581, US6956484, US6955650, US6853956, US6762684, US6748792, US6463127, US5426415, US2015197151, US2013169442, US2011072884, US2011009765, US2010268300, US2010212987, US2009004054, US2008196963, US2008117063, US2006239856, US2006238362, US2006237254, US2006237253, US2006237252, US2006217625, US2006180378, US2006179901, US2005251060, US2005241871, US2005230175, US2005156716, US2004260194, US2004239510, US2004158430, US2003117287, KR100687787, FR2727071, FR2683493, ES2109856, EP1874595, EP1730710, EP1024746, EP0565920, EP0542621,

Abstract:
Source: US4901058A [EN] A sobriety interlock is **connectable** to a machine such as a vehicle and normally operates to disable the machine from starting unless one or more preconditions, such as the passage of a breath sobriety test, is satisfied. In the event the interlock is bypassed,i.e. the machine started without a prerequisite condition being satisfied, the bypass event is detected and recorded. The record of bypass events preferably includes an indication of each time interval, such as a day, during which at least one bypass event took place as well as the total number of bypass events detected since the sobriety interlock was installed or last serviced. Also disclosed is a remote service device **connectable** to the interlock by service personnel and useful for such purposes as reading and/or clearing the record of bypass attempts.



Title:	VIDEO CAMERA AND METHOD AND DEVICE FOR CAPTURING VIDEO, AUDIO AND DATA SIGNALS																																																																																				
Priority:	CA19902007964 19900117 US19930017030 19930212 US19890457403 19891218 US19950450239 19950525 US19930144745 19931028 US19960703480 19960827 US20020226287 20020821	CA19922070529 19920604 US19890308826 19890210 US19900573539 19900827 US19950450247 19950525 US19950449925 19950525 US20020304597 20021126	US19880258722 19881017 US19890308826 19890210 US19920826372 19920127 US19940292877 19940819 US20000546901 20000410 US19980004162 19980101																																																																																		
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Probable Assignee:	ORBSAK LLC																																																																																				
Assignee(s):(std):	KASSATLY LORD SAMUEL ANTHONY ; KASSATLY SALIM A ; KASSATLY SALIM ANTOINE ; SAMIYUERU EI KASATORII ; KASSATLY L SAMUEL A ; KASSATLY LORD S A																																																																																				
Assignee(s):	KASSATLY SAMUEL ANTHONY ; KASSATLY LORD SAMUEL A ; KASSATLY L SAMUEL ANTHONY ; ORBSAK LLC ONE FIRST NATIONAL PLAZA SUITE ; ORBSAK LLC SUITE ; ORBSAK LLC ; KASSATLY SAMUEL A																																																																																				
Inventor(s):(std):	KASSATLY L SAMUEL A ; KASSATLY L SAMUEL ANTHONY ; KASSATLY LORD S A ; KASSATLY LORD SAMUEL A ; KASSATLY LORD SAMUEL ANTHONY ; KASSATLY SALIM A ; KASSATLY SALIM ANTOINE ; KASSATLY SAMUEL A ; KASSATLY SAMUEL ANTHONY ; SAMIYUERU EI KASATORII																																																																																				
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Designated states:	AT BE CH DE ES FR GB IT JP LU NL SE SU																																																																																				
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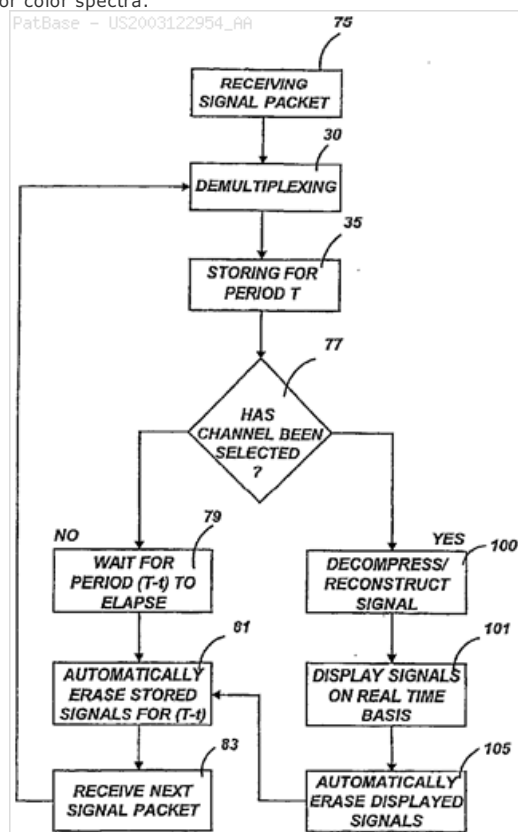
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Abstract:

Source: US2003122954A [EN] An optical apparatus for capturing digital images, and for use, for example, as a video camera includes a lens system for providing at least one derivative of an impinging light signal with respect to at least one predetermined frequency. The lens system samples the light signal as a function of the amplitude of the light signal, and rotates at an angular speed proportional to a predetermined frequency for providing a derivative of the light signal with respect to a predetermined frequency. The lens system includes three lens systems for providing three derivatives of the impinging light signal with respect to three predetermined frequencies corresponding to the three lens systems. Each of the three lens systems samples the light signal as a function of the amplitudes of the light signal relative to its predetermined frequency. In one embodiment, these predetermined frequencies correspond to the red, green and blue colors or color spectra.



Title:

Intelligent optical navigator dynamic information presentation and navigation system

Priority:

CA19890614497 19890929 US19880252917 19881003 WO1989US04386 19891003

Family:

Publication number	Publication date	Application number	Application date
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CA1324673 A1	19931123	CA19890614497	19890929
DE68927547 D1	19970123	DE19896027547	19891003
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EP0436663 A1	19910717	EP19890912031	19891003
EP0436663 B1	19961211	EP19890912031	19891003
JP4502828 T2	19920521	JP19890511236	19891003
US4905163 A	19900227	US19880252917	19881003
WO9004231 A1	19900419	WO1989US04386	19891003

Probable Assignee:

3M CO

Assignee(s):(std):

EXFLUOR RES CORP ; MINNESOTA MINING AND MFG

Assignee(s):

MINNESOTA MINING AND MFG CO ; MINNESOTA MINING AND MANUFACTURING COMPANY ; MINNESOTA MINING AND MFG CO SAINT PAUL MINNESOTA A ; MINNESOTA MINING AND MFG CO SAINT PAUL MINN US ; KRUSE JOHN M ; EXFLUOR RESEARCH CORP ; EXFLUOR RESEARCH CORP AUSTIN TEX US ; GARBER SHARON R ; KOZAK DARRYN J ; 3M CO ; CLARE MARK K

Inventor(s):(std):

KRUSE JOHN M ; KRUSE JOHN ; KOZAK DARRYN J ; KOZAK DARRYN ; GARBER SHARON R ; GARBER SHARON ; CLARE MARK K ; CLARE MARK

Inventor(s):

DARRYN J KOZAK ; SHARON R GARBER ; MARK K CLARE ; JOHN M KRUSE

Agent(s):

SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; SMART AND BIGGAR

Designated states:

AT AU BE CH DE FR GB IT JP KR LU NL SE

International class (IPC 8-9):

G06F17/30 G06F3/048 G06F3/14 G06F9/44 G06N5/04 (Advanced/Invention); G06F3/048 G06F3/14 G06F9/44 (Advanced/Non-invention); G06F17/30 G06F3/048 G06F3/14 G06F9/44 G06N5/00 (Core/Invention)

International class (IPC 1-7):

G06F15/18 G06F15/40 G06F17/30 G06F3/14 G06F9/44

CPC:

G06F17/30306 G06F17/30398

European class:

G06F17/30H4 G06F17/30S1T G06F17/30S4F5

US class:

364/513 706/11 706/55

[Classification Explorer](#)

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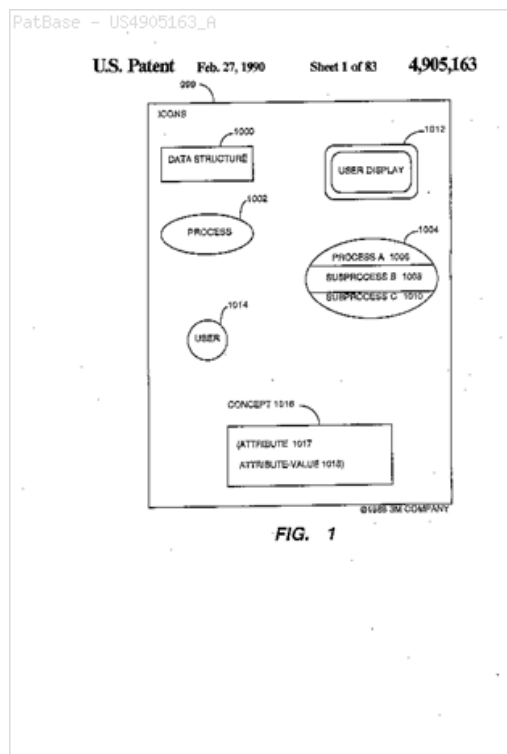
US4752889 A, US4736308 A, FR2607284 A1, EP0130050 A2,

Forward Citations:

WO9967727, WO9820431, WO9702704, WO9702704, WO9618155, WO9217853, WO9217853, WO17000891, WO05055083, WO0219054, WO0219054, WO0167351, WO0135271, WO0135271, WO0104791, US9922642, US9906474, US9899019, US9886953, US9886432, US9865280, US9865248, US9858925, US9842105, US9842101, US9818400, US9798393, US9785906, US9785630, US9760559, US9734193, US9733821, US9721566, US9721563, US9715875, US9711141, US9697822, US9697820, US9691383, US9668121, US9668024, US9646614, US9646609, US9633674, US9633660, US9633004, US9626955, US9620105, US9620104, US9619079, US9582608, US9576574, US9559917, US9548050, US9547647, US9535906, US9535563, US9502031, US9501741, US9495129, US9483461, US9443037, US9431028, US9431006, US9430463, US9424862, US9424861, US9412392, US9396473, US9389729, US9372555, US9368114, US9361886, US9338493, US9330720, US9318108, US9311043, US9300784, US9280610, US9264906, US9262612, US9230513, US9190062, US9183306, US9152375, US9117447, US9075783, US9053089, US9031846, US8996376, US8977584, US8977255, US8942986, US8935167, US8935129, US8930191, US8903716, US8898568, US8892495, US8892446, US8862252, US8831949, US8812294, US8799000, US8794516, US8781836, US8775442, US8775196, US8768702, US8762469, US8762156, US8751238, US8731942, US8719014, US8719006, US8718047, US8713119, US8713021, US8712776, US8706503, US8706472, US8688446, US8682667, US8682649, US8677377, US8677248, US8676904, US8676802, US8670985, US8670979, US8660849, US8645137, US8626712, US8620662, US8614431, US8600743, US8583418, US8583263, US8572058, US8489997, US8429112, US8396824, US8369967, US8346724, US8335779, US8296296, US8275811, US8234128, US8229757, US8225214, US8209336, US8204844, US8204758, US8200608, US8181113, US8161288, US8150885, US8135660, US8126979, US8103665, US8090624, US8046313, US8024660, US8020104, US8019752, US7974714, US7945859, US7912823, US7899810, US7881990, US7877686, US7870491, US7865829, US7856434, US7827281, US7797632, US7779015, US7769622, US7756850, US7747654, US7739607, US7734780, US7711672, US7693738, US7689919, US7672963, US7660778, US7660754, US7647400, US7617184, US7614001, US7606712, US7590866, US7567957, US7512889, US7505914, US7502997, US7500109, US7487128, US7469254, US7428528, US7418403, US7401144, US7395499, US7333998, US7325201, US7325190, US7305401, US7305400, US7305399, US7286994, US7277870, US7269564, US7268791, US7260579, US7257588, US7242988, US7219137, US7213024, US7213005, US7206748, US7149702, US7110984, US7085766, US6983371, US6978375, US6959288, US6957095, US6922155, US6834110, US6825849, US6772168, US6742003, US6694329, US6654009, US6640145, US6611812, US6587837, US6578027, US6574609, US6570587, US6539387, US6484189, US6430546, US6418424, US6418421, US6414679, US6400996, US6398245, US6389538, US6389403, US6370681, US6345256, US6335737, US6263313, US6262730, US6226618, US6216134, US6208989, US6134324, US6115724, US6092060, US6091930, US6088484, US6083163, US6081262, US6021435, US6021412, US6006242, US6005560, US5995955, US5956708, US5940832, US5870737, US5854923, US5838889, US5819270, US5812134, US5781904, US5781773, US5745895, US5737494, US5729754, US5687367, US5680557, US5678038, US5646992, US5640558, US5630117, US5608900, US5586314, US5574843, US5557790, US5555403, US5548699, US5506937, US5452414, US5446891, US5430872, US5421008, US5408655, US5317732, US5311422, US5303388, US5301284, US5289572, US5265246, US5257185, US5253333, US5249300, US5201047, US5162992, US5123088, US4852563, US2014267908, US2012309363, US2011213783, US2011166964, US2011166856, US2011112825, US2011112824, US2011004475, US2010312547, US2010241662, US2010217862, US2010161317, US2010082349, US2010064218, US2010063818, US2010048256, US2010030724, US2010030723, US2009254345, US2009228552, US2009177300, US2009171865, US2009164441, US2009150535, US2009142736, US2009094524, US2009089058, US2009055752, US2008313271, US2008294641, US2008288534, US2008189268, US2008147775, US2008133287, US2008129520, US2008104499, US2008071751, US2007294229, US2007294200, US2007282823, US2007271290, US2007168502, US2007161214, US2007130136, US2007089067, US2007053513, US2007022384, US2006265364, US2006218121, US2006184898, US2006095792, US2006089912, US2006053377, US2006053077, US2005257135, US2005246367, US2005216422, US2005066282, US2005014116, US2004260952, US2004162812, US2004162800, US2004153428, US2004139113, US2004138965, US2004128611, US2004103089, US2004103019, US2004102982, US2004100493, US2004093232, US2003130976, US2003103069, US2003069503, US2003046401,

Abstract:

Source: US4905163A [EN] Disclosed is a computerized information presentation system for dynamically organizing information in order to present to a **user** previously unrecognized relationships among portions of the information. The system comprises information description storage for storing information comprising a plurality of concepts and for each concept knowledge of allowable attributes for the concept and one or more of attributes, attribute values, and relationships among attributes and attribute values. The system further comprises categorization knowledge storage for storing knowledge of criteria for placing the concepts into categories and context determination for determining a current context based on system state. Mapping knowledge storage is included for storing knowledge of mappings between a particular context and the presentation of information. The system also includes dynamic categorization for dynamically placing the concepts into categories for presentation using the categorization criteria, the current context and the knowledge of mappings and for **displaying** on a **user** screen selected concepts and categories.



Title: EXTENSIBLE ENTITY MANAGEMENT SYSTEM INCLUDING A DISPATCHING KERNEL AND MODULES WHICH INDEPENDENTLY INTERPRET AND EXECUTE COMMANDS

Priority: AU19890043052 19890913 EP19890910805 19890913 US19880244114 19880913
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Family:	Publication number	Publication date	Application number	Application date
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	US6438591 BA	20020820	US20000609786	20000705
	WO9003005 A1	19900322	WO1989US03993	19890913

Probable Assignee: COMPAQ INFORMATION TECHNOLOGIES GROUP LP

Assignee(s):(std): COMPAQ INFORMATION TECHNOLOGIE ; DIGITAL EQUIPMENT CORP ; HEWLETT PACKARD DEVELOPMENT CO

Assignee(s): EQUIPMENT A CORP OF MA CORP ; COMPAQ COMPUTER CORP ; DIGITAL EQUIPMENT CORP MAYNARD MASS US ; EQUIPMENT CORP ; HEWLETT PACKARD DEVELOPMENT CO LP ; HEWLETT PACKARD DEVELOPMENT CO L P ; COMPAQ INFORMATION TECHNOLOGIES GROUP L P ; COMPAQ INFORMATION TECHNOLOGIES GROUP LP ; DIGITAL EQUIP CORP ; DIGITAL EQUIPMENT A CORP OF MA CORP

Inventor(s):(std): ADAMS JR WILLIAM C ; ADAMS WILLIAM C ; ADAMS WILLIAM C JR ; ANIRU BUII NAFUKARU ; ARAN BII MUA ; ARONSON DAVID ; ARONSON DAVID L ; ARUNDAHACHI JII SANKAA ; BENJIYAMIN EMU INGURANDO ; BURGESS PETER H ; CALLANDER JILL F ; CHAN LIZARDO CHRISTINE C ; CHAPMAN KENNETH W ; DAGURASU AARU FURETSUCHIYAA ; DANG REENA ; DANII ERU SUMISU ; DEBUTSUDO ERU SHIYAATOREFU ; DEBUTSUTO AARONSON ; DEBUTSUTO ERU SHIYAATOREFU ; DEII KEISU ROBAATSU ; DENISU OO ROJIYAASU ; DENISU OO ROJIYAAZU ; DENSMORE MICHAEL ; DIXON TIMOTHY M ; ENGLAND BENJAMIN M ; FEHSKENS LEONARD G ; FLETCHER DOUGLAS R ; FUIRITSUPU JIEI TORATSUSATSUTE ; GERARUDO AARU PURAUFUE ; GOLDFARB STANLEY I ; GUERTIN MATTHEW J ; GUERTIN MATTHEW W ; HARROW JEFFREY R ; HUPPER THEODORE F ; JIEFURII ERU ROOZENBAAGU ; JIEIMUSU ERU REMON JIYUNIA ; JII POORU KONINGU ; JIIRU EFU KAARANDAA ; KENISU DABURIYU CHIYATSUPUMAN ; KIYASHIII JIYOU NERUSON ; KOCH PAMELA J ; KOHLS RUTH E J ; KONING G PAUL ; KORIN SUTORATSUTO ; KURISUTEIIN SHII CHIYANNRIZAAD ; KURISUTEIIN SHII CHIYANNRIZAAT ; LEMMON JAMES L ; LEMMON JAMES L JR ; LEMMON JR JAMES L ; MAAKU DABURIYU SHIROO ; MAAKU JIEI SHIIGAA ; MAIKERU DENSUMOAA ; MASHIYUU JIEI GAATEIN ; MOORE ALLAN B ; NAMOGLU SHERYL ; NAMOGLU SHERYL E ; NAMOGLU SHERYL F ; NAVKAL ANIL V ; NELSON KATHY J ; NELSON KATHY JO ; O BRIEN LINSEY ; O BRIEN LINSEY B ; PAMERA JIEI KOTSUHO ; PIITAA EICHI BAAJIESU ; PLOUFFE GERARD R ; RAIATSU ZORUFUONUUN ; REONARUDO JII FUEESUKENSU ; RICHIIYAADO ERU ROOZENBAUMU ; RIINA DANGU ; RINJII BII OBUAIAAN ; ROBAATO AARU ENU ROSU ; ROBAATO SHII SHIYUCHIYAADO ; ROBERTS D KEITH ; ROGERS DENNIS ; ROGERS DENNIS O ; ROSENBAUM RICHARD ; ROSENBAUM RICHARD L ; ROSENBERG JEFF ; ROSENBERG JEFFREY L ; ROSS ROBERT ; ROSS ROBERT R N ; RUTH EJ KOHLS ; RUUSU II JIEI KOORUSU ; SANKAR ARUNDAHATI G ; SCHUCHARD ROBERT ; SCHUCHARD ROBERT C ; SEGER MARK ; SEGER MARK J ; SHERYL F NAMOGLU ; SHIERIRU EFU NAMOGURU ; SHURTLEFF DAVID ; SHURTLEFF DAVID L ; SMITH DANNY ; SMITH DANNY L ;

STANLEY I GOLDFARB ; STEVEN K WONG ; STRUTT COLIN ; SUTANRII AI GOORUDOFUAABU ; SUTEIIBUN KEI UONGU ; SYLOR MARK ; SYLOR MARK W ; TEIMOSHIII EMU DEITSUKUSON ; THEODORE F HUPPER ; TIMOTHY M DIXON ; TRASATTI PHILIP ; TRASATTI PHILIP J ; URIAMU SHII ADAMUSU JIYUNIA ; WILLIAM C ADAMS JR ; WONG STEVEN K ; WOOD RICHARD ; ZOLFONON RIAZ ; ROBERT RN ROSS ; ROBERT R N ROSS ; ROBERT C SCHUCHARD ; RICHARD WOOD ; RICHARD L ROSENBAUM ; RIAZ ZOLFONON ; REENA DANG ; PHILIP J TRASATTI ; PETER H BURGESS ; PAMELA J KOCH ; MICHAEL DENSMORE ; MATTHEW J GUERTIN ; MARK W SYLOR ; MARK J SEGER ; LINSEY B O BRIEN ; LEONARD G FEHSKENS ; LEMMON JAMES ; FEHSKENS LEONARD ; DOUGLAS R FLETCHER ; DIXON TIMOTHY ; DENNIS O ROGERS ; DAVID L SHURTLEFF ; DAVID L ARONSON ; DAVID ARONSON ; DANNY L SMITH ; D KEITH ROBERTS ; COLIN STRUTT ; CHRISTINE C CHAN LIZARDO ; CHAN LIZARDO CHRISTINE ; CALLANDER JILL ; BENJAMIN M ENGLAND ; ARUNDAHATI G SANKAR ; ANIL V NAVKAL ; ALLAN B MOORE ; ADAMS WILLIAM ; KENNETH W CHAPMAN ; KATHY JO NELSON ; JILL F CALLANDER ; JEFFREY L ROSENBERG ; JEFF ROSENBERG ; JAMES L LEMMON JR ; GOLDFARB STANLEY ; GERARD R PLOUFFE ; G PAUL KONING

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Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD

Designated states: AT AU BE CH DE FR GB IT JP LI LU NL SE

International class (IPC 8-9): G06F12/00 G06F13/00 G06F13/14 G06F15/16 G06F15/17 G06F15/177 G06F9/44 G06F9/46 H04L12/24 H04L29/00 H04L29/02 H04L29/06 (Advanced/Invention); G06F12/00 G06F13/00 (Advanced/Non-invention); G06F13/14 H04L29/02 H04L29/06 (Core/Invention)

International class (IPC 1-7): G06F11/00 G06F12/00 G06F13/00 G06F13/14 G06F15/00 G06F15/16 G06F15/173 G06F15/21 G06F15/40 G06F9/00 G06F9/44 G06F9/46 H04L12/28 H04L29/02 H04L29/06

CPC: Y10S707/99931 H04L41/00 H04L29/00 H04L41/042

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US class: 364/229 364/229.5 364/232.7 364/242.94 364/242.95 364/280 364/280.9 364/281.3 364/282.1 364/284 364/284.4 364/285 364/286 364/DIG.1 370/13 395/185.1 395/200.11 395/200.53 395/54 395/600 395/601 395/650 395/672 395/800 395/828 706/50 707/1 707/200 707/999.001 707/999.2 709/102 709/223 709/224 709/225 709/226 710/8 712/220 714/57 718/102

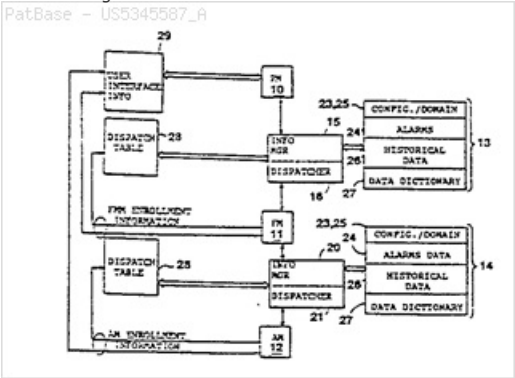
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Forward Citations: WO07073018, WO0225870, WO0221227, WO0221227, WO02054161, WO0154044, WO0147187, WO0068811, USRE43474, US9898390, US9892028, US9886365, US9806981, US9747443, US9727314, US9530001, US9497170, US9386509, US9331869, US9317690, US9262246, US9229998, US9183300, US9158599, US9075881, US9047460, US9043331, US8954442, US8949256, US8938455, US8874619, US8856178, US8805994, US8798576, US8793794, US8780874, US8768912, US8738591, US8713158, US8713153, US8694145, US8639795, US8620937, US8615803, US8615521, US8504620, US8499356, US8473580, US8462923, US8462794, US8452787, US8423644, US8422651, US8412196, US8392546, US8375448, US8369500, US8352746, US8312252, US8271680, US8271640, US8260899, US8260880, US8223935, US8223777, US8204991, US8204831, US8171122, US8169988, US8150886, US8130764, US8121891, US8117358, US8116326, US8102980, US8070909, US8032936, US8023515, US8005634, US7990981, US7966356, US7966087, US7962757, US7937449, US7908395, US7900052, US7822795, US7809768, US7783375, US7770230, US7747674, US7743427, US7725208, US7720076, US7702919, US7698012, US7680935, US7672227, US7634557, US7587763, US7562291, US7554957, US7516217, US7505989, US7496593, US7493333, US7487408, US7461381, US7451199, US7440970, US7418655, US7395262, US7386610, US7373322, US7356847, US7356377, US7354332, US7349753, US7337209, US7337019, US7333871, US7330891, US7328253, US7310666, US7281039, US7281038, US7277932, US72747379, US7272459, US7251693, US7233959, US7225047, US7221990, US7205228, US7201936, US7200602, US7188142, US7174230, US7160739, US7133883, US7133883, US7124437, US7120862, US7120862, US7103653, US7101799, US7096085, US7082345, US7082122, US7069101, US7051094, US7047099, US7016951, US7016917, US7010697, US7010606, US6999836, US6985901, US6984198, US6981266, US6977927, US6963876, US6961940, US6961878, US6961626, US6947946, US6944604, US6931393, US6913938, US6910947, US6871233, US6868540, US6850976, US6836776, US6823328, US6804819, US6782424, US6772220, US6768981, US6760747, US6745189, US6732168, US6732138, US6724875, US6708074, US6704743, US6687832, US6675172, US6662184, US6654753, US6643711, US6640231, US6640151, US6631406, US6611837, US6609153, US6606690, US6539362, US6526442, US6480903, US6473824, US6466930, US6449660, US6438591, US6418469, US6381595, US6374233, US6370561, US6370530, US6360225, US6356912, US6351761, US6343320, US6338070, US6301557, US6279034, US6223288, US6223217, US6195651, US6167448, US6131118, US6115792, US6078924, US6055534, US6029068, US5991802, US5987465, US5946464, US5943671, US5930793, US5915245, US5909688, US5902745, US5887141, US5881261, US5854754, US5848243, US5842198, US5835757, US5832219, US5809145, US5793301, US5778223, US5774877, US5768577, US5768504, US5764949, US5745724, US5742763, US5727214, US5721909, US5721895, US5706508, US5706499, US5687365, US5687363, US5680585, US5680548, US5659727, US5649168, US5644571, US5640555, US5623695, US5596748, US5590321, US5588150, US5555415, US2016217274, US2015205702, US2014351241, US2014298030, US2014207731, US2013325534, US2013312099, US2013173629, US2011282969, US2011216780, US2011066661, US2011061103, US2011061094, US2011010299, US2010325175, US2010182934, US2010177778, US2010114904, US2010046391, US2010027430, US2009204709, US2009063559, US2009055364, US2008320120, US2008301217, US2008291018, US2008281918, US2008275946, US2008256236, US2008189308, US2008127190, US2008114991, US2008004018, US20077235535, US20077150562, US20077100931, US20077038664, US2007014234, US2007005542, US2006282763, US2006070031, US2006069594, US2006053173, US2006053171, US2006053170, US2006015460, US2006010119, US2005187880, US2005155037, US2005083949, US2005078611, US2005066182, US2005060556, US2004268188, US2004260809, US2004255023, US2004221015, US2004210763, US2004207651, US2004162802, US2004133539, US2004123137, US2004072478, US2004010632, US2003236788, US2003212777, US2003208680, US2003177484, US2003172200, US2003163729, US2003154194, US2003153326, US2003135378, US2003118004, US2003097440, US2003084150, US2003065732, US2003009547, US2002194172, US2002165893, US2002163934, US2002147727, US2002147697, US2002062448, US2002040368, US2002032769, US2001054093, US2001053135, US2001035814, KR100849104, KR100678518, JP4250535, JP2004185635, EP1262070,

Abstract:

Source: US5345587A [EN] A system for managing an assemblage of entities. The entities **interface** within the assemblage for control of primary information handling functions and further **interface** with the system to permit the carrying out of management functions. The system includes management modules adapted to carry out management functions by independently interpreting and executing commands, a kernel including a table of dispatch pointers for directing the commands to the respective modules in which they are to be interpreted and executed, and an enroller for enrolling new modules into the system by adding further pointers to the table. In addition, the system includes: a module adapted to independently interpret and execute selected management-related commands; stored records relating to accessed management information, each record indicating an associated time; an information manager, responsive to commands having a time schedule, for retrieving information from the records or accessing information from the entities, including a scheduler for issuing subsidiary accesses or retrievals at possibly multiple times according to the schedule; storage containing domain information defining groups of entities, where the kernel may issue a commands to a group by issuing individual commands to appropriate modules; a common command syntax including fields for identifying the entity and the operation to be performed; a module that stores rules identifying alarm conditions, including a generator for generating rules and an alarm detector for detecting an alarm condition in response to the rules; a module adapted to carry out self-management functions by interpreting and executing commands.



Title:	Machine interface with cyclically displayed hierarchical menus and user selection of menu items by actuation of a single switch																																																																							
Priority:	CA19892000119 19891004 US19880250841 19880928 WO1989US04407 19891004 US19910687762 19910418	CA19892000140 19891004 US19890334244 19890405 US19930094687 19930719	US19880253858 19881004 US19880255156 19881004 US19920880062 19920507																																																																					
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Probable Assignee:	AMBIENT CONTROL SYSTEMS INC																																																																							
Assignee(s):(std):	KAISER DENNIS A ; LUCK JONATHAN M ; SOLATROL INC ; NIELSEN WYN Y ; CARLIN STEVEN C																																																																							
Assignee(s):	CITY TECHNOLOGY AND PUBLISHING LTD ; AMBIENT CONTROL SYSTEMS INC ; SOLATROL INC SAN DIEGO CALIF US																																																																							
Inventor(s):(std):	NIELSEN WYN Y ; NIELSEN WYN ; LUCK JONATHAN ; KAISER DENNIS A ; CARLIN STEVEN C ; LUCK JONATHAN M																																																																							
Inventor(s):	WYN Y NIELSEN ; JONATHAN M LUCK																																																																							
Agent(s):	KIRBY EADES GALE BAKER																																																																							
Designated states:	AT AU BE CH DE FR GB IT JP LI LU NL SE																																																																							
International class (IPC 8-9):	A01G25/16 G06F3/023 G06F3/048 G06F9/00 H02J1/00 H02J15/00 H02J7/35 H04Q9/00 (Advanced/Invention); H02J1/00 H04Q9/00 (Advanced/Non-invention); A01G25/16 G06F3/023 G06F3/048 G06F9/00 H02J7/35 (Core/Invention)																																																																							
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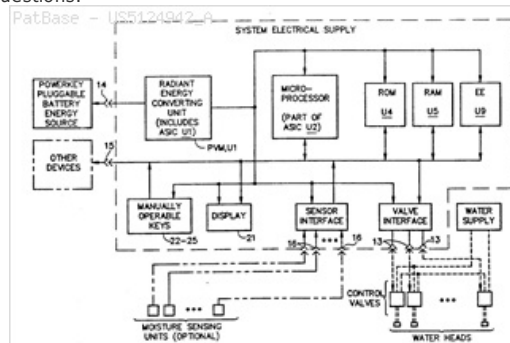
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Abstract:

Source: US5124942A [EN] A **user interface**, typically to an irrigation controller, prompts **user** responses by continuously autoscrolling questions. The questions are hierarchally organized, preferably in a hierarchal tree having approximately three to six questions on each hierarchal level between root and leaves. All command and data input may be done with only an OK/YES pushbutton switch, switches. Each OK/YES **user** response affirms the premise fo a currently **displayed** question, and advances the autoscrollled questioning to a related branch upon a next hierarchal level. The NO pushbutton is never required to advance the questioning which is always autoscrollled, but instead serves, while depressed, to accelerate the autoscrolling of successive questions. A HELP response invokes context-sensitive help messages. A STOP response causes reversion in the hierarchy of questioning toward the root level, but does not stop the autoscrolling of questions.



Title: Television program record scheduling and satellite receiver control using compressed codes

Priority:

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Family:

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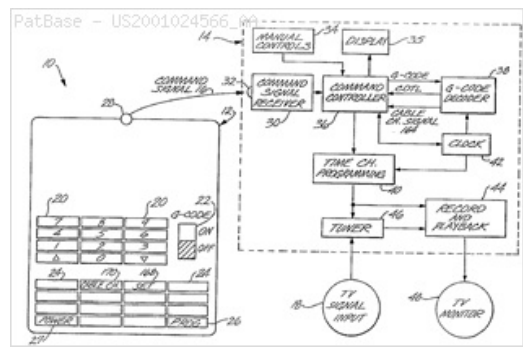
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Agent(s):	FB RICE; FB RICE PTY LTD; CASSAN MACLEAN; FETHERSTONHAUGH AND CO; OYEN WIGGS GREEN AND MUTALA LLP; HALE PETER ET AL; BRYN JACOBSEN CAELIA; CHRISTIE PARKER AND HALE LLP; ROPES AND GRAY LLP; PAUL E; FISH AND NEAVE IP GROUP OF ROPES AND GRAY LLP
Designated states:	AM AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CS CY CZ DE DK EE ES FI FR GA GB GE GN GR HU IE IT JP KE KG KP KR KZ LI LK LR LT LU LV MC MD MG ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SI SK SN SU SZ TD TG TJ TT UA UG US UZ VN
International class (IPC 8-9):	A61K31/70 A61K31/7028 A61P3/00 A61P35/00 A61P37/06 A61P43/00 B21G3/00 C07H15/10 C23C14/35 G04G15/00 G06F13/00 G06F13/10 G06F3/00 G07C9/00 G11B15/02 G11B31/00 G11B5/00 H01H9/02 H01L21/52 H01L21/68 H03M1/32 H03M7/30 H04B1/18 H04B1/20 H04B10/00 H04H20/28 H04H60/27 H04H60/32 H04H60/37 H04H60/40 H04H60/43 H04H9/00 H04N5/00 H04N5/44 H04N5/445 H04N5/50 H04N5/64 H04N5/76 H04N5/761 H04N5/7613 H04N5/7617 H04N5/765 H04N5/775 H04N5/78 H04N5/781 H04N5/782 H04N5/7826 H04N5/783 H04N5/91 H04N5/917 H04N7/00 H04N7/088 H04N7/173 H04N7/26 H04Q9/00 (Advanced/Invention); G11B15/02 G11B31/00 H01H9/02 H04H20/28 H04H60/32 H04H60/40 H04H60/43 H04H60/94 H04M11/00 H04N21/472 H04N5/00 H04N5/44 H04N5/76 H04Q9/00 (Advanced/Non-invention); B21G3/00 C23C14/35 G04G15/00 G11B15/02 G11B31/00 H01L21/02 H01L21/67 H03M7/30 H04B1/20 H04H1/00 H04N5/00 H04N5/44 H04N5/64 H04N5/76 H04N5/765 H04N5/782 H04N5/7824 H04N5/91 H04N5/917 H04Q9/00 (Core/Invention); H01H9/02 H03M1/32 H04M11/00 H04N5/76 (Core/Non-invention)
International class (IPC 1-7):	G04G15/00 G06F13/00 G06F13/10 G06F15/40 G06F15/46 G06F3/00 G06F9/00 G08C17/00 G08C19/00 G11B15/02 G11B31/00 G11B5/00 H03M1/32 H03M7/00 H04B1/18 H04B1/20 H04B10/00 H04M11/00 H04N05/76 H04N11/02 H04N11/04 H04N5/00 H04N5/44 H04N5/445 H04N5/50 H04N5/76 H04N5/761 H04N5/765 H04N5/78 H04N5/781 H04N5/782 H04N5/7826 H04N5/783 H04N5/91 H04N5/917 H04N7/00 H04N7/10 H04N7/173 H04N7/26 H04N9/79 H04Q9/00
CPC:	H04N5/775 G07C9/00142 H04B1/202 H04H20/28 H04H60/32 H04H60/37 H04H60/40 H04H60/43 H04H60/94 H04N5/64 H04N7/0887 G08C2201/40 H04N5/7755 H04N21/47214 A61K31/70 C07H15/10 H04N5/91 H04N5/917 H04N21/4334 H04N2005/44552 H04N5/44543 H04N5/76 G04G15/006 G11B15/023 G11B15/026 H04N21/42206 H04N21/42225 H01H9/025 H04N5/765 H04N5/782
European class:	A61K31/70 C07H15/10 G04G15/00C G07C9/00C2B G11B15/02C G11B15/02P H04B1/20B H04H260/32 H04H260/40 H04H60/24 H04H60/32 H04H60/344 H04H60/3466 H04H60/37 H04H60/40 H04H60/43 H04N5/64 H04N5/76 H04N5/765 H04N5/775B H04N5/782 H04N7/088P S08C201/400 S11B15/02C T01H9/02C4C T04H20/26 T04H20/28 T04H220/28 T04H260/32 T04H60/24 T04H60/32 T04H60/802 T04H60/94 T04N21/472R T04N5/775
US class:	248/146 340/12.5 340/825.72 348/1 348/731 348/732 348/732S 348/734 348/734S 348/906 348/E05.128 348/E07.036 348/E5.128 348/E7.036 358/335 386/109 386/112 386/200 386/200P 386/234 386/248 386/249 386/249P 386/250 386/250S 386/291 386/291P 386/293 386/296 386/297 386/298 386/299 386/314 386/318 386/323 386/328 386/343 386/353 386/355 386/46 386/83 386/E05.002 386/E05.043 386/E5.002 386/E5.043 386/E50.02 386/E50.43 455/151.2 455/181.1 455/186.1 455/186.100S 725/131 725/141 725/20 725/58 725/58S 725/68 G9B/15.003 G9B/15.004
Classification Explorer	
Cited documents:	WO9208320 A1, WO9107050 A1, WO9007844 A1, WO9000847 A1, US7239798 BB, US6701060 BB, US6668133 BB, US6466734 BB, US6091882 A, US5748716 A, US5515173 A, US5414756 A, US5390027 A, US5335079 A, US5316249 A, US5307173 A, US5303063 A, US5255313 A, US5243430 A, US5228077 A, US5187589 A, US5166911 A, US5151789 A, US5127615 A, US5123046 A, US5109222 A, US5081534 A, US5068734 A, US5065235 A, US5056070 A, US4999622 A, US4998292 A, US4977455 A, US4963994 A, US4959810 A, US4933765 A, US4914517 A, US4908713 A, US4908707 A, US4899370 A, US4894789 A, US4885766 A, US4885579 A, US4879611 A, US4866542 A, US4866434 A, US4856053 A, US4847696 A, US4843482 A, US4841368 A, US4841132 A, US4832373 A, US4825200 A, US4807031 A, US4771283 A, US4755883 A, US4752834 A, US4751578 A, US4750052 A, US4734792 A, US4718112 A, US4717970 A, US4706121 A, US4703359 A, US4685122 A, US4641205 A, US4639359 A, US4638359 A, US4635121 A, US4631601 A, US4625080 A, US4623887 A, US4621259 A, US4605973 A, US4598288 A, US4593414 A, US4527194 A, US4519003 A, US4489351 A, US4488179 A, US4481412 A, US4475153 A, US4449249 A, US4435842 A, US4418333 A, US4390901 A, US4387420 A, US4381522 A, US4337480 A, US4334242 A, US4329684 A, US4325081 A, US4310924 A, US4292650 A, US4279012 A, US4272784 A, US4267563 A, US4246611 A, US4206483 A, US4193120 A, US4081754 A, US4079419 A, US4025851 A, US3936752 A, US3854123 A, JP63056021, JP61204741, GB2256549 A1, GB2256548 A1, GB2256546 A1, GB2256545 A1, GB2256333 A1, GB2215928 A1, GB2191643 A1, GB2155713 A1, GB2126002 A1, GB212600 A, GB2121002 A1, GB2104277 A1, GB2034995 A1, EP0373297 A2, EP0354313 A2, EP0286719 A2, EP0254927 A2, EP0198136 A2, EP0133985 B1, EP0133985 A2, EP0122626 A2, DE3634246 A1, DE3243610 A1, DE2612260 A1, DE2445520 A1, DE2333116 A1, DE2030034 A1, CA2005070 AA, AU536261 B2,
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Abstract:

Source: US2001024566A [EN] Encoded video recorder/player timer programming information listed in a television calendar allows a timer programming feature on a video cassette recorder VCR to be programmed using a compressed code of as few as 1 to 8 digits, which are decoded by a decoder built into an instant programmer to convert the compressed code into channel, date, time and length information. The compressed code indications associated with each television program can be printed in a television program calendar in advance. The **user** uses controls on the instant programmer to enter the code that signifies the program to be recorded. When the codes are entered they are decoded to channel, day, time-of-day, and length (CDTL) in the instant programmer. Then at the appropriate time the instant programmer transmits the proper commands to a VCR to command the recording of the selected program. This control function can be carried out by using an infrared link. To allow the instant programmer to command a satellite receiver to tune to the proper channel for recording the selected program, a code converter in a satellite remote controller converts commands from the instant programmer into commands recognizable by a satellite receiver. Then the commands are sent to a satellite receiver to command the satellite receiver on and off and to select the proper channel in the satellite receiver. Communication between the satellite remote controller and the satellite receiver can be either via infrared or radio frequency (RF) signals.



Title: VIBRATORY PATIENT SUPPORT SYSTEM

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Family:	Publication number	Publication date	Application number	Application date
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A61G7/05 (Advanced/Non-invention);
A61G7/00 A61G7/057 (Core/Invention);

A61G7/05 (Core/Non-invention)

International class
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CPC:

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European class:

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US class:

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Locarno class:

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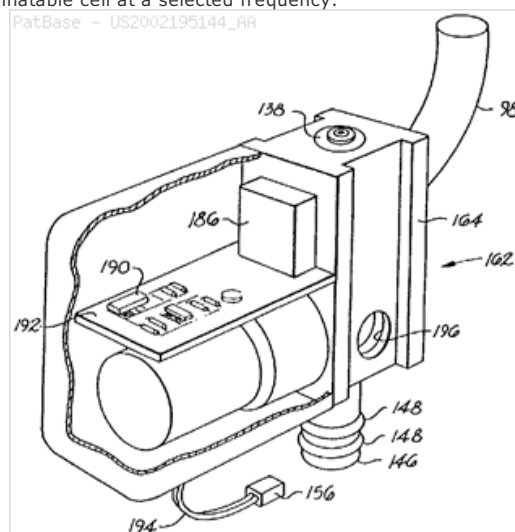
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Abstract:

Source: US2002195144A [EN] A pressure control apparatus for use in a bed including a pressurized air source, an inflatable air sack, and an independently inflatable cell located adjacent the inflatable air sack. A controller is operable to regulate the pressure in the air sack and to independently alternately pressurize and vent the inflatable cell at a selected frequency.



Title: UNIVERSAL REMOTE CONTROL WITH MACRO COMMAND CAPABILITIES

Priority:

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Family:

Publication number	Publication date	Application number	Application date
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Agent(s): GRIFFITH HACK ; BORDEN LADNER GERVAIS LLP ; DAY CAROLINE MARGARET ET AL ; REINHOLD COHN AND PARTNERS ; GE EHRLICH 1995 LTD ; GALIS MARK R ; JAROSIK GARY R ; GARY R ; MARK R

Designated states: AM AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK EE ES FI FR GA GB GE GN GR HU IE IT JP KE KG KP KR KZ LI LK LR LT LU LV MC MD MG ML MN MR MW NE NL NO NZ PL PT RO RU SD SE SI SK SN SZ TD TG TJ TT UA US UZ VN

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US class: 340/11.1 340/12.22 340/12.28 340/12.53 340/175 340/4.3 340/4.300S 340/815.45 340/815.65 340/815.69 340/825.22 340/825.25 340/825.56 340/825.57 340/825.69 340/825.72 341/173 341/175 341/176 341/176P 341/23 345/167 345/169 345/171 345/172 348/478 348/734 348/E05.096 348/E5.096 348/E50.96 348/E50.96S 359/142 359/146 359/148 364/709.16 364/900 379/102 379/102.01 379/444 398/1 398/106 398/107 398/112 398/148 455/151.1 455/352 708/146 D14/218

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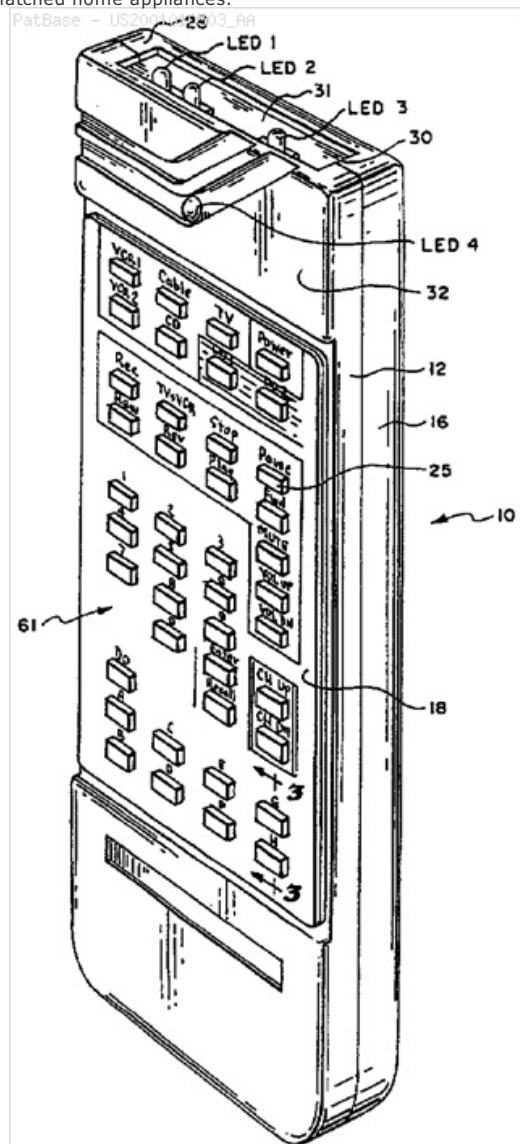
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Abstract:

Source: US2001010503A [EN] A universal remote control comprising a keyboard having a plurality of pushbuttons including a macro pushbutton and a library of codes and data for use in transmitting operating commands to a plurality of different home appliances of different manufacturers. Instructions within the remote control are used to match the universal remote control to a plurality of different home appliances of different manufacturers such that selected codes and data from the library are used to transmit operating commands to the matched home appliances in response to activation of selected pushbuttons of the keyboard. The instructions are also used to assign to the macro pushbutton a subset of the selected codes and data from the library whereafter activation of the macro pushbutton causes the universal remote control to use the subset of selected codes and data from the library to transmit operating commands to one or more of the matched home appliances.



Title: Communications apparatus and method for transmitting and receiving multiple modulated signals over electrical lines

Priority:

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Assignee(s): WIRE 21 INC ; SUMITOMO BANK OF CALIFORNIA ATTEN DAVID SHAW ; WACHOVIA BANK NA ; SUMITOMO BANK OF CALIFORNIA ; SUMITOMO BANK OF CALIFORNIA AGENT FOR ITSELF AN AS ; SUMITOMO BANK OF CALIFORNIA AGENT FOR ITSELF AND I ; WACHOVIA BANK NA ADMINISTRATIVE AGENT AS ; WIRE21 INC A NEVADA CORP ; TITAN CORP SAN DIEGO ; SIMENS AG ; XIEON NETWORKS SARL ; SUMITOMO BANK OF CALIFORNIA AS AGENT FOR ITSELF AN ; SUMITOMO BANK OF CALIFORNIA AGENT FOR ITSELF AND IMP BANK UNDER THAT CERTAIN AMENDED AND RESTATED COMMERCIAL LOAN AGREEMENT DATED MAY 15 1997 AS ; TITAN INFORMATION SYSTEMS CORP NEWBY CHARLES F ; ABRAHAM KAROLY CHARLES SARASOTA FLA US ; BANK OF NOVA SCOTIA ADMINISTRATIVE AGENT AS ; BANK OF NOVA SCOTIA AS ADMINISTRATIVE AGENT ; CERBERUS BUSINESS FINANCE LLC COLLATERAL AGENT AS ; NOKIA SIEMENS NETWORKS GMBH ; SATIUS HOLDING INC ; ELCOM TECHNOLOGIES CORP ; NOKIA SIEMENS NETWORKS GMBH AND CO KG ; ELCOM TECHNOLOGIES 78 GREAT VALLEY PARKWAY CORP ; MULLER GUSTAV ; NOVA SCOTIA BANK OF AS ADMINISTRATIVE AGENT ; NOVA SCOTIA BANK OF ADMINISTRATIVE AGENT AS ; CREDIT SUISSE FIRST BOSTON

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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 HU ID IE IL 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 SU SZ TD TG TJ TM TR TT UA UG US UZ VN YU ZW

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