

1) Family number: 3458086 (US4759014A)

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Title: Asynchronous-to-synchronous digital data multiplexer/demultiplexer with asynchronous clock regeneration

Priority: US19870055374 19870528 US19870055473 19870528

Family:

Publication number	Publication date	Application number	Application date
DE3886819 D1	19940217	DE19883886819	19880504
DE3886819 T2	19940428	DE19883886819T	19880504
EP0293096 A2	19881130	EP19880304014	19880504
EP0293096 A3	19891220	EP19880304014	19880504
EP0293096 B1	19940105	EP19880304014	19880504
IL85469 A0	19880731	IL19880085469	19880219
IL85469 A1	19911121	IL19880085469	19880219
JP2035836 A2	19900206	JP19880081145	19880401
US4759014 A	19880719	US19870055473	19870528

Probable Assignee: AMPEX CORP

Assignee(s):(std): AMPEX ; AMPEX SYSTEMS CORP

Assignee(s): AMPEX SYSTEMS CORP REDWOOD CITY CALIF US ; AMPEX CORP ; AMPEX SYSTEMS A DE CORP CORP

Inventor(s):(std): DEIBUITSUDO DEII DETSUKAA ; ROI AABUIN BAANDERUMOOREN ; VANDERMOLLEN ROY IRVIN ; VANDERMOLLEN ROY I ; DECKER DAVID G ; BROST ANDREW CARL ; BROST ANDREW C ; ANDORIYUU KAARU BUROSUTO

Inventor(s): BROST ANDREW CARL SAN JOSE CALIFORNIA 95124 US ; DECKER DAVID G SUNNYVALE CALIFORNIA 94087 US ; VANDERMOLLEN ROY IRVIN PLEASANTON CALIFORNIA 94566 ; VANDERMOLLEN ROY IRVIN PLEASANTON CALIFORNIA...

Agent(s): REINHOLD COHN AND PARTNERS

Designated states: DE FR GB

International class (IPC 8-9): G11B20/14 H04J3/04 H04J3/16 H04J3/22 H04L5/24 H04L7/00 (Advanced/Invention); G11B20/14 H04J3/04 H04J3/16 H04J3/22 H04L5/00 H04L7/00 (Core/Invention)

International class (IPC 1-7): H04J3/04 H04J3/12 H04J3/16 H04J3/22 H04J3/26 H04L5/00

CPC: G11B20/1403 H04J3/16 H04L5/24

European class: G11B20/14A H04J3/16 H04L5/24

US class: 370/110.1 370/503 370/517 370/535 370/538 370/543 370/84 G9B/20.035

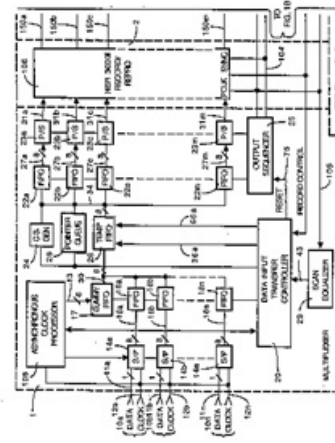
[Classification Explorer](#)

Cited documents: US4692894 A, US4654860 A, US4649536 A, US4617658 A, US4612636 A, US4549230 A, US4513328 A, US4499576 A, US4498167 A, US4358786 A, US4222078 A, US4181822 A, US4041303 A, US3982077 A, US3754098 A,

Forward Citations: WO9948235, WO9201343, USRE36633, US8514945, US8059684, US7471696, US6934674, US6781590, US6763447, US6762630, US6628679, US6538995, US6513087, US6512804, US6429871, US6167062, US6154797, US6140946, US6112099, US6108390, US6016315, US5974058, US5930477, US5877814, US5848266, US5832302, US5717440, US5706438, US5684962, US5442776, US5367545, US5287458, US5241660, US5125089, US4907186, US4833671, US4823312, US2010265953, US2009132847, US2008049846, US2005074013, US2004114638, US2003112827, US2002059165, JP4416268, JP2000332717,

Abstract:

Digital data is received on a plurality of input channels at unrelated, asynchronous input clock rates. The data is multiplexed and transmitted via one or more synchronous parallel channels, together with encoded information related to the original asynchronous input clock rate on each channel. The data received from the synchronous channels is demultiplexed and redistributed to proper output channels and clocked out therefrom at rates derived from the encoded and reconstituted asynchronous clock rate information from each channel.



2) Family number: 56094106 (US8687738B)

Title: CIRCUITS AND METHODS USING A MAJORITY VOTE

Priority: US20110078421 20110401

Family:

Publication number	Publication date	Application number	Application date
US8687738 BA	20140401	US20110078421	20110401

Probable Assignee: ALTERA CORP

Assignee(s):(std): ALTERA CORP ; CHAI CHUAN KHYE ; LEE SWEE WAH ; OOI TENG CHOW

Inventor(s):(std): OOI TENG CHOW ; CHAI CHUAN KHYE ; LEE SWEE WAH

Agent(s): STEVEN J

International class (IPC 8-9): H04L27/00 (Advanced/Invention)

CPC: H04L7/0025 H04L7/033

US class: 327/141 327/147 327/156 327/163 370/503 370/508 370/516 375/224 375/226 375/326 375/340
375/344 375/354 375/371 375/373 375/374 375/375 375/376 455/260 455/502 455/516

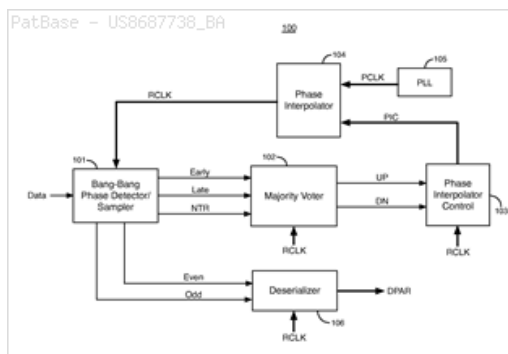
Classification Explorer

Cited documents: US7720160 BA, US7474720 BB, US7315596 BB, US7295644 BA, US7092472 BB, US5463351 A, US2010098203 AA, US2007217559 AA,

Forward Citations: WO19018081, WO17007517, US9813227, US9490968, US9407424, US9306732, US9270284, US2018069554, US2015244549, US2015188696, US10425123, US10090844, EP3320645,

Abstract:

A clock data recovery circuit includes a phase detector circuit, a majority voter circuit, and a phase shift circuit. The phase detector circuit is operable to compare a phase of a periodic signal to a phase of a data signal to generate a phase error signal. The majority voter circuit includes a shift register circuit. The shift register circuit is operable to generate an output signal based on the phase error signal. The majority voter circuit is operable to generate a majority vote of the phase error signal based on the output signal of the shift register circuit. The phase shift circuit is operable to set the phase of the periodic signal based on the majority vote generated by the majority voter circuit.



Title: METHOD AND DIGITAL CIRCUIT FOR RECOVERING A CLOCK AND DATA FROM AN INPUT SIGNAL USING A DIGITAL FREQUENCY DETECTION

Priority: US20100938405 20101103 JP20130537827 20111103 WO2011US59207 20111103

Family:	Publication number	Publication date	Application number	Application date
	■ CN103238290 A	20130807	CN201180057864	20111103
	■ CN103238290 B	20160323	CN201180057864	20111103
	■ EP2636179 A1	20130911	EP20110788647	20111103
	■ IN03511CN2013 A	20150102	IN2013CN03511	20130503
	■ JP2013545403 T2	20131219	JP20130537827T	20111103
	■ JP2014209784 A2	20141106	JP20140140296	20140708
	■ JP5735686 B2	20150617	JP20140140296	20140708
	■ JP5908920 B2	20160426	JP20130537827T	20111103
	■ KR101488923 B1	20150202	KR20137014270	20111103
	■ KR20130087549 A	20130806	KR20137014270	20111103
	■ US2012109356 AA	20120503	US20100938405	20101103
	■ US8798217 BB	20140805	US20100938405	20101103
	■ WO12061631 A1	20120510	WO2011US59207	20111103

Probable Assignee: QUALCOMM INC

Assignee(s):(std): DANG NAM V ; KONG XIAOHUA ; QUALCOMM INC ; SOWLATI TIRDAD ; ZHU ZHI

Inventor(s):(std): KONG XIAOHUA ; ZHU ZHI ; DANG NAM V ; SOWLATI TIRDAD ; ZHU JI ; HSIAO HUA KON ; TIRDAD SOWLATI

Agent(s): DUNLOP HUGH CHRISTOPHER; NICHOLAS J; SAM; JOSEPH; TALPALATSKY SAM

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

International class (IPC 8-9): G01R13/02 G06F19/00 H03K5/00 H03K5/19 H03L7/06 H03L7/113 H04L7/00 H04L7/033 (Advanced/Invention)

CPC: H04L7/033 H04L7/0337

European class: H04L7/033 T04L7/033E

US class: 324/76.82 324/76.820S 327/156 327/156S 327/49 327/49S 375/354 700/121 700/121P

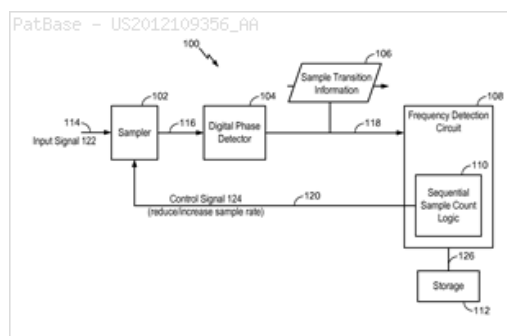
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Cited documents: US7555085 BA, US7430252 BB, US7409032 BB, US7409031 BA, US7183864 BA, US6952405 BB, US5862157 A, US5341404 A, US5297181 A, US4821297 A, US2010215118 AA, US2010215118, US2010091925 AA, US2009147901 AA, US2009147901, US2008225933 AA, US2006291551 AA, US2005286643 AA, US2005286643, US2005025260 AA, US2004052528 AA, US2002089356 AA, JP2011135149 A2, JP2011135149, JP2007109349, JP2003281831, JP1161936 A2, JP1161936, EP0502260 A1, EP0502260, EP0317159 A2, EP0317159, CN101194419 A,

Forward Citations: WO14051754, US9923564, US9838121, US9832338, US9800234, US9686105, US9590728, US9531529, US9432176, US9419783, US9407424, US9401723, US9385816, US9252785, US9218532, US9203541, US9178615, US9148250, US9118460, US9014564, US8847645, US8804889, US8666013, US8633748, US2017187361, US2017141779, US2015304097, US2013082755, US10411593, US10135605, KR20160015250, GB2520716, CN105991112, CN105991112,

Abstract:

In a particular embodiment, a digital circuit includes a frequency detection circuit operative to compare information related to transitions between sequential samples of a received signal. The frequency detection circuit is further operative to generate a control signal to reduce a sampling rate of the received signal in response to a predetermined number of the sequential samples having a same value. The digital circuit also includes a digital phase detector operative to provide the information related to the transitions between sequential samples to the frequency detection circuit.



Title: VERFAHREN ZUM STEUERN EINER EISENBANANLAGE UND EINRICHTUNG ZUR DURCHFUEHRUNG DES VERFAHRENS

Priority: DE19762637867 19760823

Family:	Publication number	Publication date	Application number	Application date
	■ DE2637867 A1	19780302	DE19762637867	19760823
	■ DE2637867 C2	19890720	DE19762637867	19760823
	■ DE2637867 C3	19890720	DE19762637867	19760823

Probable Assignee: SIEMENS AG

Assignee(s):(std): SIEMENS AG

Inventor(s):(std): HARTKOPF HANS OTTO ING GRAD ; TIETZEL HANS HERMANN DIPL ING ; ZILLMER ADALBERT DIPL ING

Inventor(s): ZILLMER ADALBERT DIPL ING 3340 WOLFENBUETTEL DE ; HARTKOPF HANS OTTO ING GRAD 3300 BRAUNSCHWEIG D ; HARTKOPF HANS OTTO ING GRAD 3300 BRAUNSCHWEIG DE ; HARTKOPF HANS OTTO ING

International class (IPC 8-9): B61L19/06 (Advanced/Invention); B61L19/00 (Core/Invention)

International class (IPC 1-7): B61L21/00 B61L27/00

CPC: B61L19/06

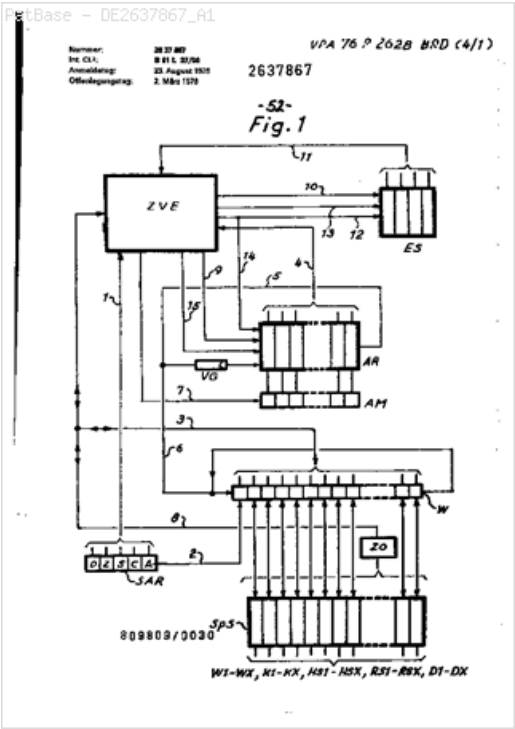
European class: B61L19/06 B61L27/04

[Classification Explorer](#)

Cited documents: DE1455390 A, DE1030383 A,

Forward Citations: DE3535785, DE3535756, DE2925169,

Abstract:
The electronic control system for railway tracks using a central data processor, is based on cyclic interrogation of each track section to determine whether the command signal has been executed. The comman signals are transmitted in several successive stages. First, an interrogation is made of all track sections which are to be included in the route being set up and subsequently, a check made between the required status of the section and its actual situation. Commands are stored in a signal register according to the type, track code, start signal, destination and overrun length. The command register and a store which holds the tract section status data are strobed by a cyclic selector so that when one section has been established, the selector searches for the next entered in the command register.



5) Family number: 32122419 (US2005190074A)

Title: METHOD AND APPARATUS FOR COLLECTING AND DISPLAYING CONSUMPTION DATA FROM A METER READING SYSTEM

Priority: US20040534419P 20040114 US20040536419P 20040114 US20050036170 20050113
CA20052492822 20050114 US20070985337 20071114 US20080054707 20080325
US20110092492 20110422

Family:	Publication number	Publication date	Application number	Application date
	AU2005200227 AA	20050728	AU20050200227	20050114
	AU2005200227 BB	20100415	AU20050200227	20050114
	AU2005200227 CA	20100909	AU20050200227	20050114
	CA2492822 AA	20050714	CA20052492822	20050114
	CA2492822 C	20160315	CA20052492822	20050114
	MXPA05000702 A1	20051005	MX2005PA00702	20050114
	US2005190074 AA	20050901	US20050036170	20050113
	US2008180274 AA	20080731	US20070985337	20071114
	US2009120469 AA	20090514	US20080054707	20080325
	US2011210862 AA	20110901	US20110092492	20110422
	US7317404 BB	20080108	US20050036170	20050113

Probable Assignee: ITRON INC

Assignee(s):(std): AMERICAN TRIM L L C ; ITRON INC

Assignee(s): WELLS FARGO BANK NATIONAL ASSOCIATION ; AMERICAN TRIM LLC ; CUMERALTO SCOTT ; DEVRIES RICHARD

Inventor(s):(std): CUMERALTO SCOTT ; DEVRIES RICHARD ; BYRNE ROBERT M ; HAFEKEN SR KURT F

Inventor(s): SCOTT CUMERALTO ; RICHARD DEVRIES

Agent(s): SHELSTON IP PTY LTD; SHELSTON IP; MACPHERSON LESLIE AND TYERMAN LLP; PATTERSON THUENTE SKAAR AND CHRISTENSEN PA; RANKIN HILL AND CLARK LLP

International class A47L15/30 A47L15/44 A47L19/00 G01D4/00 G01D7/00 G01R21/00 G08B23/00 G08C15/06 G08C19/00

(IPC 8-9): H02J4/00 H04Q9/00 (Advanced/Invention);
A47L15/00 A47L15/44 A47L19/00 (Core/Invention)

International class G01D7/00 G01R21/00 G08B23/00 G08C15/06 G08C19/00 H02J4/00 H04B5/02

(IPC 1-7):

CPC: A47L15/30 A47L15/4251 A47L15/44 G08B23/00 Y02B90/245 Y04S20/40 G01D4/006 G06Q50/06 H04Q9/00 Y02B90/243 Y04S20/325 H04Q2209/43 H04Q2209/50 H04Q2209/60 H04Q2209/823

European class: A47L15/30 A47L15/42J A47L15/44 G01D4/00R2 G06Q50/06 H04Q9/00 Y02B90/24B4 Y04S20/32D

US class: 134/105 134/115R 134/137 340/870.02 340/870.020P 340/870.03 702/60 705/412

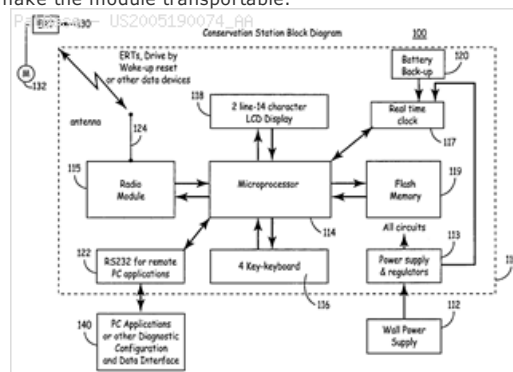
[Classification Explorer](#)

Cited documents: US7126494 BB, US7119698 BB, US7098783 BB, US7069161 BB, US7039532 BB, US7039529 BB, US7002481 BA, US6985087 BB, US6956500 BA, US6904385 BA, US6898493 BB, US6556142 BB, US6550488 BB, US6531863 BA, US6429642 BA, US6377190 BA, US6181257 BA, US6161100 A, US6141610 A, US6112754 A, US6112152 A, US6081204 A, US6006148 A, US5937880 A, US5926776 A, US5923269 A, US5904163 A, US5838258 A, US5803563 A, US5687752 A, US5644090 A, US5635895 A, US5617084 A, US5518014 A, US5278551 A, US5214587 A, US5155481 A, US5056107 A, US5027840 A, US4940976 A, US4803632 A, US4600923 A, US4488666 A, US4315248 A, US4058768 A, US3460878 A,

Forward Citations: WO18004777, WO12052784, WO09082761, WO08142431, WO08142429, WO08142425, WO08121486, WO08115256, WO07118128, WO07118128, WO07103941, WO07103941, USD667321, USD615895, US9887541, US9874466, US9857805, US9852486, US9847639, US9766270, US9678520, US9621457, US9612132, US9585537, US9582020, US9568392, US9563218, US9558655, US9553453, US9551593, US9542658, US9523993, US9520005, US9507363, US9507362, US9500385, US9483737, US9454173, US9438492, US9410833, US9367075, US9354641, US9325174, US9303878, US9298191, US9282383, US9228853, US9197949, US9189822, US9111322, US9084120, US9053519, US9041349, US9019120, US9013173, US9001787, US8970394, US8943857, US8943845, US8918224, US8912919, US8909494, US8891338, US8874623, US8869569, US8856323, US8843332, US8843242, US8842712, US8832428, US8825583, US8803040, US8801862, US8793029, US8793021, US8781462, US8730018, US8725274, US8719186, US8704639, US8699377, US8674544, US8649987, US8627689, US8626347, US8618452, US8617316, US8583386, US8577510, US8560134, US8548638, US8548635, US8541719, US8525692, US8522579, US8502640, US8494792, US8489342, US8474279, US8447541, US8437883, US8396821, US8370697, US8367984, US8355826, US8341106, US8334787, US8332055, US8319658, US8306668, US8301931, US8289182, US8269650, US8239073, US8171364, US8144596, US8138934, US8130107, US8063792, US7956767, US7936163, US7920983, US7885917, US7830272, US7623043, US7541941, US7427927, US7385524, US7379791, US2017181598, US2016350734, US2015295408, US2015212975, US2015204691, US2015107630, US2015053243, US2014343736, US2014343734, US2014277917, US2014267296, US2014197964, US2013338842, US2013110837, US2013030553, US2013002447, US2012310801, US2012166233, US2012101652, US2012053902, US2011298635, US2011282808, US2011252261, US2011238311, US2011231342, US2011215945, US2011148202, US2011125337, US2011077875, US2011077037, US2011040785, US2010318306, US2010299457, US2010292961, US2010286840, US2010231413, US2010211233, US2010207728, US2010191487, US2010187219, US2010179708, US2010127889, US2010110077, US2010100253, US2010074340, US2010070434, US2010070099, US2010045471, US2010007655, US2009326725, US2009315535, US2009309756, US2009307178, US2009256719, US2009194395, US2009167558, US2009167547, US2009153357, US2009138866, US2009138777, US2009138713, US2009138617, US2009138099, US2009135851, US2009135843, US2009135836, US2009135762, US2009135753, US2009135716, US2009135018, US2009109056, US2009033469, US2009009359, US2008238712, US2008224892, US2008154802, US2008150751, US2008136667, US2008117077, US2007239317, US2007214070, US2007203860, US2007139220, US2007103335, US2006031180, US10476273, US10462022, US10401401, US10386872, US10274985, US10255644, US10242414, US10177930, US10157531, US10108217, US10095659, GB2465800, GB2440961, EP2558827, AU2011200949,

Abstract:

A method and an apparatus for collecting and displaying real-time utility consumption data and an estimate of utility costs from various utility metering modules upon request by the consumer within the comfort of their own home or business. According to one aspect of the invention, a utility display module is in communication with a utility end point device that monitors and displays consumption of a utility (water, gas, and/or electricity). The source of the data received by the module may be generated by utility meter transmitters that are attached to the various utility delivery end points or meters. In a related embodiment, a repeater may be used with a battery powered energy display module to make the module transportable.



6) Family number: 51491427 (US2012177159A)

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Title: FULL DIGITAL BANG BANG FREQUENCY DETECTOR WITH NO DATA PATTERN DEPENDENCY
Priority: US20110005271 20110112
Family:

Publication number	Publication date	Application number	Application date
TW201246882 A	20121116	TW20120101298	20120112
US2012177159 AA	20120712	US20110005271	20110112
US8634510 BB	20140121	US20110005271	20110112
WO12097103 A1	20120719	WO2012US20995	20120111

Probable Assignee: QUALCOMM INC
Assignee(s):(std): AGGARWAL ASHUTOSH ; DANG NAM V ; DANG VANNAME ; KONG XIAOHUA ; QUALCOMM INC ; SOWLATI TIRDAD

Inventor(s):(std): KONG XIAOHUA ; SOWLATI TIRDAD ; DANG VANNAME ; DANG NAM V ; AGGARWAL ASHUTOSH ; KONG

XIAO HUA

Agent(s): NICHOLAS J; SAM; JOSEPH; TALPALATSKY SAM

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

International class (IPC 8-9): H03L7/087 H03L7/089 H04L7/02 H04L7/033 (Advanced/Invention)

CPC: H04L7/033 H03L7/07 H03L7/0807 H03L7/0814 H03L7/087 H03L7/091 H03L7/0995

European class: H03L7/07 H03L7/081A1 H03L7/087 H03L7/08E H03L7/091 H03L7/099C H04L7/033

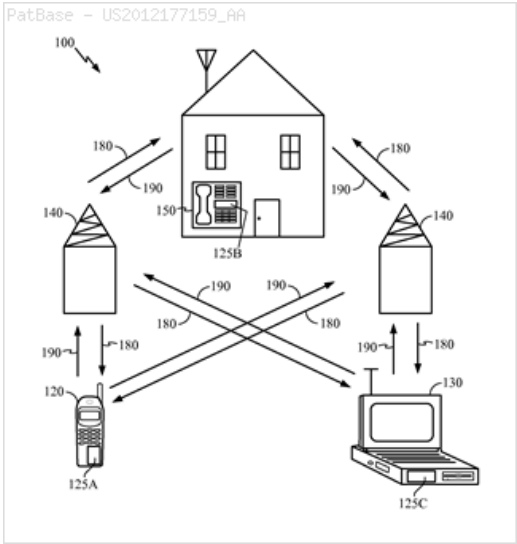
US class: 327/141 327/163 370/516 375/316 375/326 375/327 375/340 375/344 375/354 375/359 375/359P 375/371 375/375 455/119 455/173.1 455/182.1 455/182.2 455/192.1 455/192.2 455/502 455/516 455/75 714/707

[Classification Explorer](#)

Cited documents: US7453255 BB, US7424082 BB, US7321248 BB, US7221723 BB, US7099400 BB, US6822483 BA, US6785354 BA, US6538475 BA, US5939912 A, US4849993 A, US2011307722 AA, US2010302885 AA, US2007009074 AA, US2006083339 AA, US2004086069 AA, US2004042578 AA, US2002186087 AA, EP0836282 A1,

Forward Citations: US9960774, US9778678, US9716582, US9485082, US8981824, US8860467, US2014266355, US10469126, US10256967, TWI651935, TWI569582, CN106533433, CN104052469,

Abstract:
A bang-bang frequency detector with no data pattern dependency is provided. In examples, the detector recovers a clock from received data, such as data having a non-return to zero (NRZ) format. A first bang-bang phase detector (BBPD) provides first phase information about a phase difference between a sample clock and the clock embedded in the received data. A second BBPD provides second phase information about a second phase difference between the clock embedded in the received data and a delayed version of the sample clock. A frequency difference between the sample clock and the clock embedded in the received data is determined based on the first and second phase differences. The frequency difference can be used to adjust the frequency of the sample clock. A lock detector can be coupled to a BBPD output to determine if the sample clock is locked to the clock embedded in the received data.



7) Family number: 66076432 (US2017171004A) © PatBase

Title: METHODS AND DEVICES FOR DATA DEMODULATION

Priority: CN201510918305 20151210

Family:

Publication number	Publication date	Application number	Application date
■ CN106878217 A	20170620	CN201510918305	20151210
■ US2017171004 AA	20170615	US20160358748	20161122
■ US10044539 BB	20180807	US20160358748	20161122

Probable Assignee: LATTICE SEMICONDUCTOR CORP

Assignee(s):(std): LATTICE SEMICONDUCTOR CORP

Assignee(s): WELLS FARGO BANK NATIONAL ASSOCIATION ADMINISTRATIVE AGENT AS

Inventor(s):(std): ZHANG BING ; SONG FEI ; WU QIMING

Agent(s): HAYNES AND BOONE LLP

International class (IPC 8-9): H03K9/02 H04B17/00 H04B3/46 H04L25/03 H04L27/06 H04L27/227 H04Q1/20 (Advanced/Invention)

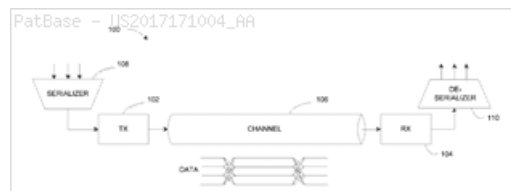
CPC: H04L27/06 H03K9/02 H04L25/0272 H04L25/03273 H04L25/4917 H04L27/2275 H04Q2213/03

US class: 1/1 375/226

[Classification Explorer](#)

Cited documents: US2016072650 AA, US2008180289 AA, US2005259774 AA, US2005058234 AA,

Abstract:
Embodiments of the present disclosure relate to methods and device for receiving PAM data stream. In an embodiment, a method comprises receiving a signal stream modulated with pulse amplitude modulation (PAM) associated with a plurality of bit patterns; determining boundary voltages for the plurality of bit patterns; and calibrating, based on the boundary voltages, a threshold voltage for use in recognition of the plurality of bit patterns. In this way, bit patterns may be accurately recognized based on the calibrated threshold voltage.



8) Family number: 54513488 (US2013201316A)

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Title: SYSTEM AND METHOD FOR SERVER BASED CONTROL

Priority: US20120584500P 20120109 US20120620129P 20120404 US20120637030P 20120423
US20120647034P 20120515 US20130733634 20130103 US20160361434 20161127
US20170657163 20170723 US20170716881 20170927 US20170832787 20171206
US20180992219 20180530 US20180992221 20180530 US20180053836 20180803
US20180053834 20180803 US20180198803 20181122 US20180198804 20181122

Family:	Publication number	Publication date	Application number	Application date
	US2013201316 AA	20130808	US20130733634	20130103
	US2017078400 AA	20170316	US20160361434	20161127
	US2017331899 AA	20171116	US20170657163	20170723
	US2018034912 AA	20180201	US20170716881	20170927
	US2018124181 AA	20180503	US20170832787	20171206
	US2018278693 AA	20180927	US20180992219	20180530
	US2018278694 AA	20180927	US20180992221	20180530
	US2018343304 AA	20181129	US20180053836	20180803
	US2018375940 AA	20181227	US20180053834	20180803
	US2019098090 AA	20190328	US20180198803	20181122
	US2019109904 AA	20190411	US20180198804	20181122

Probable Assignee: MAY PATENTS LTD

Assignee(s):(std): MAY PATENTS LTD

Inventor(s):(std): BINDER YEHUDA ; MAYTAL BENJAMIN

International class (IPC 8-9): H04L29/08 (Advanced/Invention); B60K31/00 B60K31/18 G01C21/00 G07C5/00 G08G1/00 (Advanced/Non-invention)

CPC: G06Q2240/00 H04L67/12 Y04S40/18 B60K31/00 B60K31/18 B60Y2200/11 B60Y2200/12 B60Y2200/126 B60Y2200/13 B60Y2200/30 B60Y2200/40 B60Y2200/50 B60Y2200/90 G01C21/00 G07C5/008 G08G1/00

US class: 1/1 348/143 348/77 370/276 700/22 700/28 701/2 701/31.4 701/48 709/218

[Classification Explorer](#)

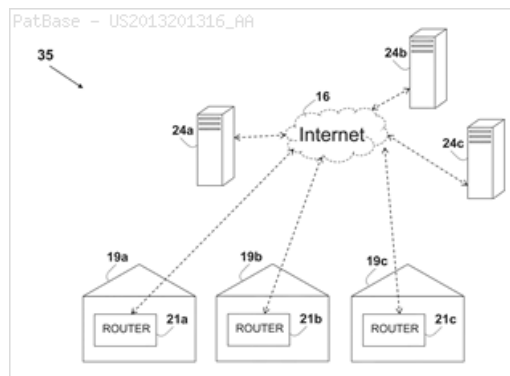
Cited documents: US2017272316 AA, US2017027231 AA, US2016344745 AA, US2016218884 AA, US2016062330 AA, US2016021888 AA, US2015046582 AA, US2015004658 AA, US2014215491 AA, US2013308581 AA, US2013139440 AA, US2013091279 AA, US2012325197 AA, US2012079149 AA, US2012032519 AA, US2012025348 AA, US20111251807 AA, US2011153149 AA, US2010211258 AA, US2010207754 AA, US2010071053 AA, US2010030421 AA, US2009224906 AA, US2009198380 AA, US2009138136 AA, US2009089065 AA, US2008307075 AA, US2008215391 AA, US2008136670 AA, US2008129475 AA, US2008100428 AA, US2007283005 AA, US2007220907 AA, US2007198144 AA, US2007176740 AA, US2007096565 AA, US2007028300 AA, US2007021847 AA, US2006212194 AA, US2006111825 AA, US2005273505 AA, US2003105389 AA, US2003009271 AA,

Forward Citations: WO19191437, WO19178040, WO19162835, WO19043446, WO18183870, WO18146513, WO18039191, WO18013921, WO17185084, WO17142874, WO17106855, WO17058992, WO17019903, WO16176481, WO16155943, WO16074873, WO16058368, WO15198087, WO15160657, USD850490, USD847866, USD847865, USD847864, US9992623, US9985839, US9984350, US9984349, US9984348, US9979478, US9978035, US9974042, US9974041, US9973391, US9967800, US9967110, US9967030, US9964434, US9958948, US9954363, US9949228, US9946663, US9941570, US9936050, US9933804, US9930635, US9929851, US9924245, US9923621, US9918232, US9913240, US9912053, US9912034, US9906191, US9904902, US9901435, US9893975, US9890811, US9889868, US9887898, US9886316, US9883411, US9866748, US9866524, US9857868, US9856869, US9854556, US9852630, US9847291, US9843096, US9841210, US9833251, US9828011, US9826338, US9825671, US9823289, US9811080, US9803412, US9798681, US9798388, US9797725, US9787680, US9787400, US9779627, US9772919, US9769903, US9762547, US9759703, US9756116, US9753272, US9747236, US9742866, US9742483, US9740187, US9732977, US9725088, US9710038, US9701203, US9696740, US9694766, US9688374, US9680704, US9680324, US9674885, US9667727, US9661215, US9660790, US9652987, US9648009, US9646121, US9636981, US9634995, US9632554, US9629193, US9619105, US9608904, US9606522, US9600078, US9590975, US9590701, US9588191, US9584730, US9580139, US9577913, US9570643, US9553512, US9544543, US9543635, US9541921, US9533597, US9531704, US9531618, US9531067, US9522687, US9521449, US9520730, US9520250, US9517782, US9509436, US9509371, US9507417, US9504920, US9496620, US9494429, US9490533, US9451573, US9451434, US9446678, US9444510, US9436569, US9426223, US9420620, US9412254, US9407101, US9403545, US9397820, US9389295, US9373885, US9373245, US9368870, US9357339, US9350665, US9349365, US9325516, US9319257, US9316400, US9310891, US9306830, US9298266, US9293817, US9288102, US9287956, US9274575, US9264315, US9262064, US9246674, US9243440, US9241044, US9240625, US9231672, US9230064, US9229476, US9198265, US9191037, US9172605, US9148849, US9129155, US9111135, US9100339, US9098739, US9092665, US9088313, US9075114, US9071058, US9065523, US9063873, US9032071, US9000921, US8996060, US8988517, US8981731, US8971954, US8971210, US8934675, US8922353, US8880204, US8878496, US8855730, US8836601, US8830312, US8731977, US2019053352, US2019045361, US2018247542, US2018167822, US2018129129, US2018102942, US2018070323, US2018069617, US2018020060, US2017374069, US2017364458, US2017356870, US2017345282, US2017322821, US2017318706, US2017315519, US2017293311, US2017213451, US2017211916, US2017194807, US2017188434, US2017187231, US2017170926, US2017155447, US2017150378, US2017149806, US2017086479, US2017052059, US2017048243, US2017034316, US2017004228, US2016367150, US2016364967, US2016352532, US2016352204, US2016342800, US2016330793, US2016323356, US2016316739, US2016315472, US2016313684, US2016301573, US2016301474, US2016300341, US2016299862, US2016262242, US2016258639, US2016245279, US2016234765, US2016213189, US2016144695, US2016143192, US2016135206, US2016127635, US2016126031, US2016119713, US2016116900, US2016109864, US2016109322, US2016096608, US2016095150, US2016095013, US2016094028, US2016088438, US2016088211, US2016082903, US2016072556, US2016065536, US2016059853, US2016037131, US2016020910, US2016011617, US2016006272, US2016003491,

US2016001656, US2015362537, US2015362207, US2015358660, US2015333817, US2015300671, US2015297121, US2015296048, US2015256391, US2015256355, US2015251556, US2015244806, US2015244410, US2015237123, US2015226587, US2015222820, US2015213268, US2015198941, US2015181680, US2015180774, US2015177035, US2015172426, US2015171650, US2015168976, US2015166085, US2015154556, US2015149123, US2015145417, US2015131639, US2015131479, US2015117148, US2015116813, US2015114010, US2015108284, US2015090000, US2015085132, US2015081313, US2015078463, US2015078215, US2015070007, US2015068243, US2015067819, US2015066516, US2015061525, US2015051788, US2015046646, US2015046061, US2015035722, US2015031461, US2015029960, US2015022725, US2015015476, US2015012757, US2014355499, US2014340243, US2014340240, US2014340093, US2014336850, US2014315494, US2014288912, US2014280865, US2014273865, US2014241533, US2014237092, US2014233661, US2014219443, US2014216837, US2014211636, US2014177864, US2014176308, US2014142729, US2014111341, US2014074346, US2014066123, US2014064082, US2014032737, US2014022383, US2014005834, US2013273952, US2013267173, US2013173219, US2013130614, US2012139538, US20121202155, US2011141255, US10474112, US10470972, US10470100, US10469628, US10469615, US10469614, US10469495, US10467444, US10466064, US10463468, US10462877, US10462225, US10461951, US10459615, US10457152, US10455048, US10453023, US10448472, US10447809, US10447783, US10447050, US10440146, US10433194, US10429801, US10426675, US10419655, US10419647, US10419523, US10416631, US10416143, US10413477, US10412810, US10411746, US10411627, US10410437, US10409562, US10401806, US10399461, US10397222, US10390926, US10387316, US10379839, US10379435, US10376152, US10374706, US10372092, US10368392, US10366183, US10363197, US10362391, US10361585, US10359771, US10356649, US10352578, US10349173, US10342655, US10335260, US10333049, US10326678, US10321418, US10320763, US10317099, US10313484, US10313199, US10306428, US10305744, US10298540, US10296269, US10295972, US10295390, US10291836, US10291292, US10282185, US10279825, US10277711, US10274136, US10272014, US10271166, US10271165, US10270660, US10268781, US10268168, US10264299, US10262473, US10257319, US10251739, US10250503, US10250329, US10248886, US10248679, US10240723, US10238009, US10237601, US10237600, US10234835, US10229382, US10225374, US10223679, US10219975, US10211004, US10205787, US10205530, US10204505, US10203267, US10201046, US10200203, US10194328, US10191024, US10190855, US10187748, US10187402, US10186120, US10183618, US10183552, US10182438, US10172136, US10163084, US10162733, US10157363, US10154506, US10147326, US10147284, US10146319, US10142989, US10139834, US10137892, US10135713, US10133849, US10132553, US10131362, US10129758, US10124246, US10118696, US10116474, US10108325, US10107785, US10107675, US10106106, US10103985, US10102494, US10102345, US10101143, US10097671, US10095495, US10094138, US10090996, US10090925, US10088828, US10086953, US10084550, US10083548, US10078811, US10074184, US10074069, US10070661, US10069936, US10069319, US10067490, US10062411, US10057722, US10057388, US10057133, US10057079, US10057045, US10055238, US10052553, US10051714, US10051435, US10050705, US10048232, US10044595, US10040464, US10033594, US10033516, US10028498, US10025601, US10009965, US10003396, US10002471, US10001293, TWI660878, TWI635467, TWI629879, TWI625613, TWI510927, RU2650783, RU2572455, ES2552604, EP3289430, EP3243047, EP3177064, EP3163386, EP3114884, EP3114884, EP2995818, EP2995818, EP2863607, DE102018206934, DE102017115887, DE102016220554, DE102015112431, DE102015112431, DE102015003219, DE102014204577, DE102014204577, CN108882108, CN107850475, CN107036600, CN106879049, CN106790349, CN106656826, CN105677034, CN105388801, CN105388801, CN105100004, CN104822031, CN104822031, CN104729594,

Abstract:

A system and method in a building or vehicle for an actuator operation in response to a sensor according to a control logic, the system comprising a router or a gateway communicating with a device associated with the sensor and a device associated with the actuator over in-building or in-vehicle networks, and an external Internet-connected control server associated with the control logic implementing a PID closed linear control loop and communicating with the router over external network for controlling the in-building or in-vehicle phenomenon. The sensor may be a microphone or a camera, and the system may include voice or image processing as part of the control logic. A redundancy is used by using multiple sensors or actuators, or by using multiple data paths over the building or vehicle internal or external communication. The networks may be wired or wireless, and may be BAN, PAN, LAN, WAN, or home networks.



9) Family number: 46422570 (US2010199136A)

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Title:	METHOD AND APPARATUS FOR DETECTING AND CORRECTING ERRORS IN A PARALLEL TO SERIAL CIRCUIT		
Priority:	US20090148923P 20090131 US20090474248 20090528 US20100695786 20100128	US20090148925P 20090131 WO2010US20560 20100108 US20100695992 20100128	US20090148930P 20090131 US20100692105 20100122

Family:	Publication number	Publication date	Application number	Application date
	■ CN102292913 A	20111221	CN201080005614	20100108
	■ CN102292913 B	20160120	CN201080005614	20100108
	■ EP2384544 A2	20111109	EP20100701056	20100108
	■ EP2384544 B1	20161228	EP20100701056	20100108
	■ IN05479CN2011 A	20121005	IN2011CN05479	20110727
	■ IN285368 B	20170721	IN2011CN05479	20110727
	■ JP2012516642 T2	20120719	JP20110548003T	20100108
	■ JP5232308 B2	20130710	JP20110548003T	20100108
	■ KR101263110 B1	20130509	KR20117017961	20100108

KR20110110288 A	20111006	KR20117017961	20100108
US2010199136 AA	20100805	US20090474248	20090528
US7872495 BA	20110118	US20100695992	20100128
US7971115 BB	20110628	US20090474248	20090528
US8395446 BA	20130312	US20100692105	20100122
US8650429 BA	20140211	US20100695786	20100128
WO10088016 A2	20100805	WO2010US20560	20100108
WO10088016 A3	20110310	WO2010US20560	20100108

Probable Assignee: XILINX INC

Assignee(s):(std): STARR GREG W ; TRAN TOAN D ; XILINX INC ; ZHU XIANG

Inventor(s):(std): PATRA MADAN M ; SASAKI PAUL T ; STARR GREG W ; ZHU XIANG ; MARLETT MARK J ; HSIEH CHENG H ; TRAN TOAN D ; PATRA MADEN M

Inventor(s): PATRA MADAN

Agent(s): NAISMITH ROBERT STEWART; FUKAMI PATENT OFFICE PC; XILINX INC ATTN LEGAL DEPARTMENT; W ERIC; MURRAY; GERALD; LIU JUSTIN 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 CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8-9): G01R31/28 G01R31/317 G01R31/3177 G06F1/12 G06F11/07 G06F11/25 H03F3/45 H03K19/003 H03K5/19 H03L7/095 H03M9/00 (Advanced/Invention); G01R31/317 G01R31/3185 G06F11/07 H03K5/19 H03L7/095 H03M9/00 (Advanced/Non-invention); G01R31/28 G06F11/25 (Core/Invention)

CPC: G01R31/31726 H03K19/01837 G01R31/318516 H03K5/19 H03M9/00

European class: G01R31/317T1 H03K19/018P H03K5/19 H03M9/00 S01R31/3185P

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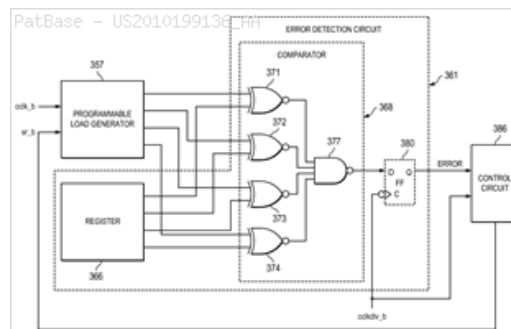
[Classification Explorer](#)

Cited documents: WO09012436 A1, WO09012436, WO08057257 A2, WO08057257, WO04038994 A1, WO04038994 A1, US7782647 BB, US7692451 BB, US7593432 BB, US7593432 B1, US7532070 BB, US7346794 BA, US7289589 BB, US7289589 B1, US7215196 BB, US7205788 BA, US7091890 BA, US7091890 BA, US7091890, US6704384 BA, US6581183 BA, US6278321 BA, US5065396 A, US5062105 A, US5052028 A, US2008186972 AA, JP6052001 A2, JP6052001, JP2007505578 T2, JP2007505578, JP2002314409 A2, JP2002314409, JP2002009629 A2, JP2002009629, JP10322200 A2, JP10322200 A2, EP1249936 A2, EP1249936 A2, EP1249936,

Forward Citations: WO16082840, US9887699, US9800438, US9780797, US9673819, US9547034, US9496879, US9397868, US9281969, US9240784, US9225344, US9214939, US9203605, US9201415, US9178563, US9160335, US9071243, US9020087, US8995600, US8964820, US8885691, US8855176, US8824616, US8804888, US8731031, US2018351524, US2017117900, US2015214933, US2015155869, US2015016493, US2015008954, US2014198810, US2014126678, US2013041612, US2012008727, US10447276, US10291229, US10193540, US10193515, CN107423153, CN105379122, CN105379122,

Abstract:

A circuit has first portion that receives data at a first rate; a second portion that outputs data at a second rate synchronized to and different from the first rate; a third portion that transfers data from the first portion to the second portion; and a fourth portion that generates an error detected signal in response to a disruption in the synchronism between the first and second rates. A different aspect involves a method that includes: receiving data at a first rate in a first portion; transferring data from the first portion to a second portion; outputting data at a second rate from the second portion, the second rate being synchronized to and different from the first rate; and generating an error detected signal in response to detection of a disruption in the synchronism between the first and second rates.



10) Family number: 20931628 (DE1026400B)

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Title: FERNSTEUEREMPAENGER FUER TONFREQUENTE NETZUEBERLAGERUNGS-ZENTRALFERNSTEUERANLAGEN MIT HILFE EINES SYNCHRONWAEHLERS FERNSTEUEREMPAENGER FUER audio frequency POWER ON STORAGE CENTRAL REMOTE CONTROL EQUIPMENT USING A SYNCHRONWAEHLERS (Machine translation)

Priority: 19570509 DE1957L027645 19570517

Family:	Publication number	Publication date	Application number	Application date
	DE1026400 B	19580320	DE1957L027645	19570517
	FR 1205564 A	19600203		19580424

Probable Assignee: LANDIS AND GYR AG

Assignee(s):(std): LANDIS AND GYR AG

Assignee(s): LANDIS AND GYR ; LANDIS AND GYR A G

Inventor(s):(std): HAURI PAUL

International class (IPC 8-9): H02J13/00 (Advanced/Invention); H02J13/00 (Core/Invention)

International class H02J13/00
(IPC 1-7):
CPC: H02J13/0041
European class: H02J13/00F4B2B2D

[Classification Explorer](#)

Abstract:

Source: DE1026400B [DE] [Source: Claim 1] 1. Fernsteuerempfaenger fuer tonfrequente Netz- ueberlagerungs- Zentralfernsteneranlagen nach dem Synchronwaehlerprinzip, bei dem ueber einen fuer die Steuerfrequenz selektiven Eingangskreis und ueber ein diesem zugeordnetes Impulsrelais mit Hilfe eines Synchronwaehlers einem Startimpuls zeitlich zugeordnete Befehl impuls zu Steueropera tionen verarbeitet werden, dadurch gekennzeichnet, dass ein mechanisches Stellschloss als soge.nannter Gruppenzusatz (GZ) vorgesehen ist, der besteht aus einer Mehrzahl durch die Synchronwaehler achse(a) angetriebenen Steuernocken (nj, n2...), einem durch ein Impulsrelais (G) betaetigten, um eine Achse (a1) schwenkbarem Schlossstellhebel (U), einem Impulscodeschluessel als relativ zum Schloss bewegliches Codepasssstueck (P) und aus einem durch diesen Impulscodeschluessel betaetig ten, in den Hauptarbeitsstrompfad der Steuer impulse gelegten Seriekontakt (g2), derart, da,ss bei aus dem Netz (N) eintreffenden, mit einem gewaehlten Codeschluessel uebereinstimmenden Steu erimpulsen der Seriekontakt (gz) geschlossen wird und damit den Hauptarbeitsstrompfad fuer die Verarbeitung weiter eintreffender Befehl impuls zu Steueroperationen freigibt. **Machine translation:** [Source: Claim 1] . 1 Fernsteuerempfaenger for audio-frequency network overlay Zentralfernsteneranlagen after Synchronwaehlerprinzip, in which about one for the control frequency selective input circuit and by an associated therewith impulse relay using a Synchronwaehlers a start pulse time-aligned instruction pulse processed to control Opera tions, characterized in that a mechanical parking lock as soge.nannter group additive (GZ) is provided which comprises a plurality of the Synchronwaehler axis (a) driven cam (nj, n2...), one by a pulse relay (G) operated about an axis (a1) swivel lock lever (U), a Impulscodeschluessel as relative to lock movable Codepasssstueck (P) and betaetig th of a through this Impulscodeschluessel, in the main working current path of the control pulses specified series contact (g2), such as, ss arriving at from the network (N) with an elected Codeschluessel concurring STEU erimpulsen series Contact (gz) is closed and thus the main shunt path for the further processing of incoming command pulses releases to control operations.

