

1) Family number: 11234998 (US5230094A)

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Title: Method and apparatus for intermediate frequency selection in a heterodyne receiver

Abstract: In a heterodyne receiver having more than one selectable receive frequency and having at least one intermediate frequency circuit (102) capable of operation on at least two intermediate frequencies, a method for selecting one of the at least two intermediate frequencies is shown. The selection method includes selecting (402) one of the more than one selectable receive frequency, and then selecting (408, 410, 504, 506, 510, 512) at least one of the at least two intermediate frequencies for each of the at least one intermediate frequency circuit in response to the selected receive frequency. The selection of the intermediate frequency for each of the at least one intermediate frequency circuit is made such that the selected intermediate frequency does not cause the generation of one or more undesirable spurious frequencies as a result of mixing the selected receive frequency and the selected intermediate frequency.

Classifications:

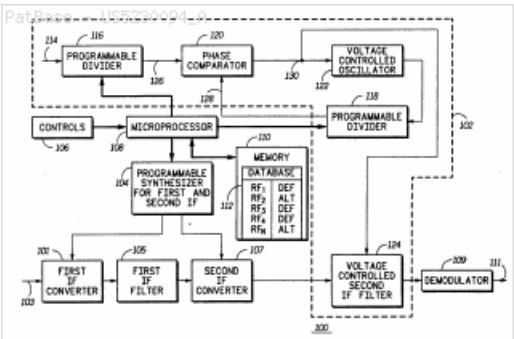
International (IPC 8-9): H04B1/26 H04B15/04 (Advanced/Invention)

International (IPC 1-7): H04B1/10

CPC: H04B1/26 H04B15/04 H04B2215/064

European: H04B1/26 H04B15/04 T04B215/064

US: 455/183.2 455/186.1 455/296



Family:

Publication number	Publication date	Application number	Application date
US5230094 A	19930720	US19920879397	19920507

Priority:

US19920879397 19920507

Probable Assignee: MOTOROLA MOBILITY INC

Assignee(s): (std): MOTOROLA INC

Assignee(s): MOTOROLA MOBILITY INC ; MOTOROLA INC A DE CORP

Inventor(s): (std): KITCHING PHILIP A ; MITTEL JAMES G

2) Family number: 19680280 (US2726326A)

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Title: Electrical automatic tuning unit

Abstract: [Class 40 (i)] A circuit L4, C1 forms part of a signal channel (not shown) and is tuned to the desired frequency f^1 , f^2 or f^3 by injecting from a local source a frequency f^1 , f^2 or f^3 to produce an output sufficient to block valve 6 to de-energize relay 7 and stop a motor M rotating the shaft of condenser C1. As applied to a transmitter, the local frequency source feeds harmonic amplifiers which are tuned by the motor, Fig. 3 (not shown); as applied to a receiver, the local frequency source feeds harmonic amplifiers whose output constitutes the heterodyning oscillation and whose tuning circuits are ganged with the radio-frequency tuned circuits and are adjusted by the motor, Fig. 4 (not shown).

Classifications:

International (IPC 8-9): H03J7/30 (Advanced/Invention);

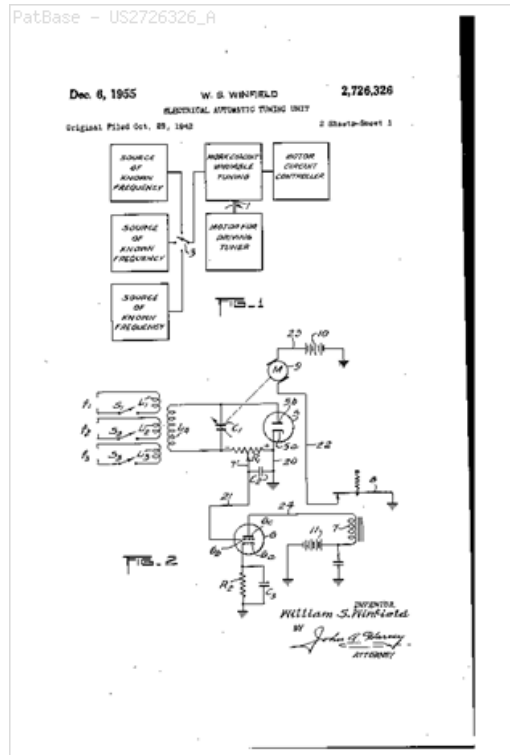
H03J7/18 (Core/Invention)

International (IPC 1-7): H03J3/10

CPC: H03J7/30

European: H03J7/30

US: 318/606 334/24 334/26 334/61 334/83 455/151.3 455/162.1

**Family:**

Publication number	Publication date	Application number	Application date
GB634437 A	19500322	GB19460023247	19460806
US2524281 A	19501003	US19420463775	19421029
US2726326 A	19551206	US19490095697	19490527

Priority:

US19420463775 19421029 US19490095697 19490527

Probable Assignee: SYLVANIA ELECTRIC PROD

Assignee(s): (std): COLONIAL RADIO CORP ; SYLVANIA ELECTRIC PROD

Assignee(s): SYLVANIA ELECTRIC PRODUCTS INC

Inventor(s): (std): WINFIELD WILLIAM S

3) Family number: 29907076 (US2003231066A)

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Title: MOBILE RADIO COMMUNICATIONS DEVICE

Abstract: A mobile radio communications device has a first crystal oscillator for providing a first master clock frequency for the timebase of a first communications system, a second crystal oscillator for providing a second master clock frequency for the timebase of a second communications system, and a phase locked loop connected between the first and second crystal oscillators and arranged to lock the first and second crystal oscillators together so that the two timebases cannot drift.

Classifications:

International (IPC 8-9): H03J7/04 H03L7/06 H04B1/26 H04B1/40 H04B7/26 (Advanced/Invention);

H03J7/02 H03L7/06 H04B1/26 H04B1/40 H04B7/26 (Core/Invention)

International (IPC 1-7): H03B1/00 H03L7/00 H03L7/06 H03L7/08 H04B1/40 H04B7/26

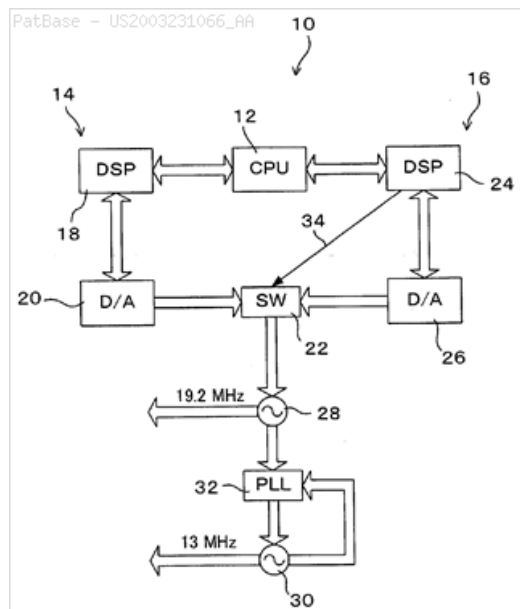
CPC: H03J7/04 H03L7/06

European: H03J7/04 H03L7/06

US: 331/2 331/46 331/47

JP F-Term: 5J106 5J106/AA04 5J106/BB01 5J106/CC01 5J106/CC15 5J106/KK11 5K011 5K011/DA07 5K011/EA01 5K011/JA01 5K011/KA04 5K020 5K020/AA08 5K020/DD12 5K020/GG01 5K020/GG04 5K020/GG22 5K020/KK08 5K020/MM04 5K020/NN10 5K067 5K067/AA21 5K067/AA43 5K067/BB04 5K067/EE04 5K067/KK13

JP F-Index: H03L7/06/A H03L7/06/210 H04B1/26/E H04B1/26/U H04B1/26/W H04B1/3822 H04B1/40 H04B7/26/Z H04Q7/00/463 H04Q7/00/653 H04W56/00/150 H04W88/06



Family:

Publication number	Publication date	Application number	Application date
GB200208489 A0	20020522	GB20020008489	20020412
GB2387494 A1	20031015	GB20020008489	20020412
GB2387494 B2	20050209	GB20020008489	20020412
JP2003332939 A2	20031121	JP20030105110	20030409
JP4224685 B2	20090218	JP20030105110	20030409
US2003231066 AA	20031218	US20030411618	20030410
US6870428 BB	20050322	US20030411618	20030410

Priority:

GB20020008489 20020412

Probable Assignee: LENOVO GROUP LTD

Assignee(s): (std): NEC CORP ; NEC TECHNOLOGIES ; NEC TECHNOLOGIES UK LTD

Assignee(s): LENOVO GROUP LTD ; LENOVO INNOVATIONS HONG KONG LTD

Inventor(s): (std): BANKS ANTHONY PAUL ; BOWDLER NICHOLAS CRAIG ; HENNELLY MARTIN ; ORMSON RICHARD ; HENNELLEY MARTIN ; BOWDLER NIK ; BANKS TONY ; ANTHONY PAUL BANKS

Inventor(s): MARTIN HENNELLEY ; NIK BOWDLER ; RICHARD ORMSON ; TONY BANKS

Agent(s): OSTROLENK FABER GERB AND SOFFEN LLP

4) Family number: 45893176 (US2011321106A)

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Title: TRANSMITTER, RECEIVER, COMMUNICATION EQUIPMENT, COMMUNICATION SYSTEM, TRANSMISSION METHOD AND RECEPTION METHOD

Abstract: To reduce the time required for communication of a video image data, as well as to prevent deterioration of image quality caused by compression and decompression. A clock control means 20 which outputs a plurality of clocks which have different frequencies; a division means 510 which divides analogue data into a prescribed number; a clock attachment means (transmission block processing part 520) which attaches a clock of a different frequency to each of the divided analogue data; a digital converting means (A/D conversion part 530) which converts the analogue data to digital data, thereby to generate a plurality of digital signals; and a transmission means (transmission part 710) which transmits to the outside the plurality of digital signals as transmission signals are provided.

Classifications:

International (IPC 8-9): H04B1/04 H04B1/06 H04B1/16 H04B1/38 H04L27/00 H04N7/14 H04N7/173 H04N7/24 (Advanced/Invention); H04B1/04 H04B1/06 H04N7/14 H04N7/24 (Advanced/Non-invention); H04B1/04 (Core/Invention)

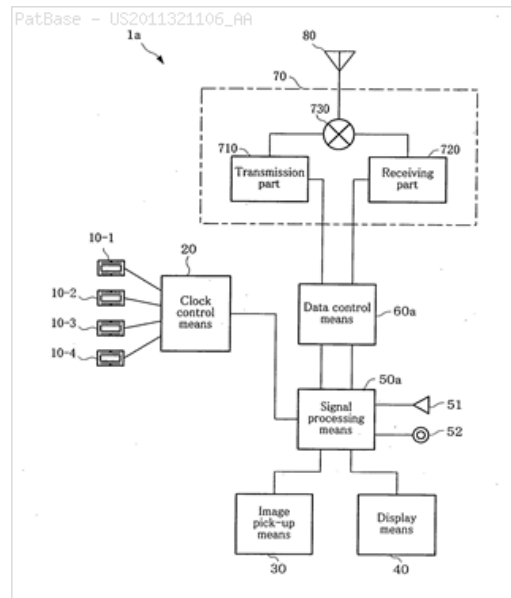
CPC: H04N21/4381 H04N21/2383 H04N21/41407 H04N21/4382 H04N21/814

European: H04N21/2383 H04N21/414M H04N21/438D H04N21/438M H04N21/43S1 H04N21/81D2

US: 375/219 375/219S 375/259 375/259S 375/295 375/295S 375/316 375/316S 725/109 725/109P

JP F-Term: 5K060 5K060/BB07 5K060/CC04 5K060/CC11 5K060/KK04 5K061 5K061/BB07 5K061/BB12

JP F-Index: H04B1/04/Z H04B1/16/Z



Priority:

JP19770048896 19770425

Probable Assignee:

SANYO ELECTRIC CO

Assignee(s): (std):

SANYO ELECTRIC CO

Assignee(s):

SANYO ELECTRIC CO LTD

Inventor(s): (std):

IMAMURA EIGO

6) Family number: 8876467 (JP62243433A)

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Title: RADIO TRANSMISSION AND RECEPTION SYSTEM

Abstract: PURPOSE: To surely execute the transmission and reception between a master station and a slave station when a propagation line is fluctuated and a transmission/reception range is increased by switching the reference frequency of the master station so as to select one of the two transmission/ reception frequencies in the master station. CONSTITUTION:Reception means RXa, RXb of outgoing/incoming relay circuits in a relay station 3 check the reception state of a prescribed frequency at carrier detection circuits CD1 and CD2 and operate transmission means TXa, TXb at the detection of reception. After a signal of a carrier frequency f3 from the master station 1 is received by the reception means RXb, the signal is converted into a signal having a carrier frequency f1 by the transmission means TXb corresponding to the reception frequency f1 of the slave station 2 and relayed. Further, the transmission signal having a carrier frequency f2 sent from the slave station 2 is received by the reception means RXa of the relay circuit 4a, converted into a transmission signal having a carrier frequency f4 by the transmission means TXa corresponding to the reception frequency f4 of the master station 1 and relayed.

Classifications:

International (ipc 8-9): H04B1/50 H04B7/15

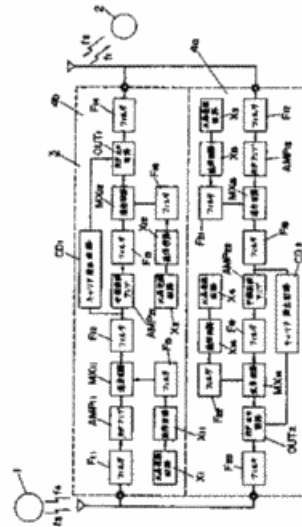
H04B7/24 (Advanced/Invention)

International (ipc 1-7): H04B1/50 H04B7/15 H04B7/24

JP F-Term: 5K011 5K011/BA03 5K011/BA09 5K011/DA00 5K011/DA03 5K011/DA05 5K011/DA10 5K011/DA13 5K011/EA01 5K011/FA07 5K011/JA02 5K011/JA08 5K011/KA02 5K011/KA13 5K011/LA02 5K067 5K067/AA33 5K067/BB21 5K067/EE02 5K067/EE06 5K067/EE10 5K067/EE22 5K067/EE61 5K067/GG01 5K067/JJ11 5K067/JJ31 5K072 5K072/AA02 5K072/AA29 5K072/CC32 5K072/DD16 5K072/DD17 5K072/GG12 5K072/GG13 5K072/GG24 5K072/GG26 5K072/GG39

JP F-Index: H04B1/50 H04B7/15 H04B7/15/Z H04B7/24 H04B7/24/B H04Q7/00/547 H04Q7/00/652 H04W72/04/132 H04W88/04

PatBase - JP62243433_A2



Family:

Publication number	Publication date	Application number	Application date
JP62243433 A2	19871023	JP19860087487	19860416

Priority:

JP19860087487 19860416

Probable Assignee: MATSUSHITA ELECTRIC WORKS LTD

Assignee(s): (std): MATSUSHITA ELECTRIC WORKS LTD

Inventor(s): (std): YAMASHITA KOJI ; HONDA KAZUHIRO ; OGAWA YUTAKA ; UMEYAMA HIROSHI ; TATEZUKI KUNIHARU