CPC COOPERATIVE PATENT CLASSIFICATION

H ELECTRICITY

(NOTE omitted)

H03 ELECTRONIC CIRCUITRY

H03J TUNING RESONANT CIRCUITS; SELECTING RESONANT CIRCUITS

<u>NOTE</u>

This subclass <u>covers</u> also the control of tuning, including the combined control of tuning and other functions, e.g. combinations of tuning control and volume control, combinations of control of local oscillator and of supplementary resonant circuits.

WARNING

{In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.}

1/00	Details of adjusting, driving, indicating, or mechanical control arrangements for resonant circuits in general	1/044	• • • {Illumination of the tuning dial; On and off switching of the illumination; Circuits related with illumination}
	NOTE	1/045	• • {Indication of the tuning band, the bandwidth, tone control, the channel number, the
	Groups H03J 1/14, H03J 1/16 take precedence		frequency, or the like}
	over groups <u>H03J 1/08</u> - <u>H03J 1/12</u> . {This Note corresponds to IPC Note (1) relating to <u>H03J 1/08</u> - <u>H03J 1/12</u> .}	1/047	• • • {using electronic means, e.g. LED's (display of electronic variables in general <u>G01R 13/00</u> , for discontinuous display C01B 12/(040)
1/0008	 {using a central processing unit, e.g. a microprocessor (digital tuning in general H03J 5/0245)} 	1/048	<u>G01R 13/404</u>)} • • • • {with digital indication (using a microprocessor <u>H03J 1/0016</u>)}
1/0016	 . {Indicating arrangements (digital indication of tuning in general <u>H03J 1/048</u>)} 	1/06	 Driving or adjusting arrangements; combined with other driving or adjusting arrangements, e.g. of gain control
1/0025	 {in a remote control unit (remote control tuning in general <u>H03J 9/00</u>)} 	1/063	• {Special arrangements taken in correlation with the wear; Suppressing backlash; Locking in a
1/0033	• {for voltage synthesis with a D/A converter}		desired position}
1/0041	 {for frequency synthesis with counters or frequency dividers} 	1/066	• {Constructional details regarding potentiometric setting of voltage or current variable reactances}
1/005	• • • {in a loop}	1/08	Toothed-gear drive; Worm drive
1/0058	• • {provided with channel identification means	1/10	• • Rope drive; Chain drive
	(arrangements for monitoring the use made of broadcast services H0/H 60/31)	1/12	• • Friction drive
1/0066	 broadcast services <u>H04H 60/31</u>) • { with means for analysing the received signal 	1/14	Special arrangements for fine and coarse tuning
	strength (<u>H03J 1/0083</u> takes precedence)}	1/16	Single control means independently performing two or more functions
1/0075	• • • • {where the receiving frequencies of the stations are stored in a permanent memory,	1/18	• Control by auxiliary power
	e.g. ROM}	1/182	• • {using a ring of magnets or the like}
1/0083	• • • {using two or more tuners}	1/185	• { the auxiliary power producing an adjustment dependent on the current intensity }
1/0091	• {provided with means for scanning over a band of frequencies (H03J 1/0058 takes precedence)}	1/187	• • {the auxiliary power balancing automatically
1/02	 Indicating arrangements {(indicating correct tuning H03J 3/12)} 		a Wheatstone bridge or the like, that has been unbalanced by the controlling device}
1/025	• {with voiced announcement}	1/20	• the auxiliary power being switched on as long as
1/04	• • with optical indicating means	1/22	controlling current is switched on
1/041	• • {Pointers, markers, or the like, for tuning dials; Folding dials}	1/22	• • with stepping arrangements actuated by control pulses
1/042	• • • {Means insuring a precise reading of the dial,	3/00	Continuous tuning (H03J 7/00, H03J 9/00 take
	e.g. special scale, local illumination possibly		precedence; combination of continuous and
	temporary, luminous point moving with the pointer}		discontinuous tuning other than for bandspreading H03J 5/00)
	romer)	3/02	• Details

H03J

3/04	• Arrangements for compensating for variations of
3/06	physical values, e.g. temperatureArrangements for obtaining constant bandwidth
5/00	or gain throughout tuning range or ranges
3/08	•••• by varying a second parameter simultaneously
	with the tuning, e.g. coupling bandpass filter
3/10	• • Circuit arrangements for fine tuning, e.g.
0/10	bandspreading
3/12	• Electrically-operated arrangements for indicating
3/14	correct tuningVisual indication, e.g. magic eye
3/14	Tuning without displacement of reactive element,
0/10	e.g. by varying permeability
3/18	by discharge tube or semiconductor device
	simulating variable reactance
3/185	• • • • { with varactors, i.e. voltage variable reactive diodes }
3/20	• of single resonant circuit by varying inductance only
	or capacitance only
3/22	• of single resonant circuit by varying inductance and capacitance simultaneously
3/24	• of more than one resonant circuit simultaneously,
	the circuits being tuned to substantially the same frequency, e.g. for single-knob tuning
3/26	 the circuits being coupled so as to form a
5/20	bandpass filter
3/28	• of more than one resonant circuit simultaneously,
	the tuning frequencies of the circuits having a
	substantially constant difference throughout the
3/30	tuning rangeArrangements for ensuring tracking with variable
5/50	inductors
3/32	• Arrangements for ensuring tracking with variable capacitors
3/32 5/00	capacitors Discontinuous tuning; Selecting predetermined
	capacitors Discontinuous tuning; Selecting predetermined frequencies; Selecting frequency bands with
	capacitors Discontinuous tuning; Selecting predetermined frequencies; Selecting frequency bands with or without continuous tuning in one or more
	capacitors Discontinuous tuning; Selecting predetermined frequencies; Selecting frequency bands with or without continuous tuning in one or more of the bands, e.g. push-button tuning, turret
	capacitors Discontinuous tuning; Selecting predetermined frequencies; Selecting frequency bands with or without continuous tuning in one or more of the bands, e.g. push-button tuning, turret tuner (H03J 7/00, H03J 9/00 take precedence; for
	capacitors Discontinuous tuning; Selecting predetermined frequencies; Selecting frequency bands with or without continuous tuning in one or more of the bands, e.g. push-button tuning, turret tuner (H03J 7/00, H03J 9/00 take precedence; for bandspreading H03J 3/10)
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5/00 5/02	capacitors Discontinuous tuning; Selecting predetermined frequencies; Selecting frequency bands with or without continuous tuning in one or more of the bands, e.g. push-button tuning, turret tuner (H03J 7/00, H03J 9/00 take precedence; for bandspreading H03J 3/10) • with variable tuning element having a number of predetermined settings and adjustable to a desired one of these settings
5/00	capacitors Discontinuous tuning; Selecting predetermined frequencies; Selecting frequency bands with or without continuous tuning in one or more of the bands, e.g. push-button tuning, turret tuner (H03J 7/00, H03J 9/00 take precedence; for bandspreading H03J 3/10) • with variable tuning element having a number of predetermined settings and adjustable to a desired one of these settings • {Discontinuous tuning using an electrical variable
5/00 5/02	 capacitors Discontinuous tuning; Selecting predetermined frequencies; Selecting frequency bands with or without continuous tuning in one or more of the bands, e.g. push-button tuning, turret tuner (H03J 7/00, H03J 9/00 take precedence; for bandspreading H03J 3/10) with variable tuning element having a number of predetermined settings and adjustable to a desired one of these settings {Discontinuous tuning using an electrical variable impedance element, e.g. a voltage variable
5/00 5/02	 capacitors Discontinuous tuning; Selecting predetermined frequencies; Selecting frequency bands with or without continuous tuning in one or more of the bands, e.g. push-button tuning, turret tuner (H03J 7/00, H03J 9/00 take precedence; for bandspreading H03J 3/10) with variable tuning element having a number of predetermined settings and adjustable to a desired one of these settings {Discontinuous tuning using an electrical variable impedance element, e.g. a voltage variable reactive diode, by selecting the corresponding
5/00 5/02	 capacitors Discontinuous tuning; Selecting predetermined frequencies; Selecting frequency bands with or without continuous tuning in one or more of the bands, e.g. push-button tuning, turret tuner (H03J 7/00, H03J 9/00 take precedence; for bandspreading H03J 3/10) with variable tuning element having a number of predetermined settings and adjustable to a desired one of these settings {Discontinuous tuning using an electrical variable impedance element, e.g. a voltage variable
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5/00 5/02 5/0209	 capacitors Discontinuous tuning; Selecting predetermined frequencies; Selecting frequency bands with or without continuous tuning in one or more of the bands, e.g. push-button tuning, turret tuner (H03J 7/00, H03J 9/00 take precedence; for bandspreading H03J 3/10) with variable tuning element having a number of predetermined settings and adjustable to a desired one of these settings {Discontinuous tuning using an electrical variable impedance element, e.g. a voltage variable reactive diode, by selecting the corresponding analogue value between a set of non preset values} {Discontinuous tuning using an electrical variable impedance element, e.g. a voltage variable impedance element, e.g. a voltage variable impedance element, e.g. a voltage variable to a desired value s}
5/00 5/02 5/0209	 capacitors Discontinuous tuning; Selecting predetermined frequencies; Selecting frequency bands with or without continuous tuning in one or more of the bands, e.g. push-button tuning, turret tuner (H03J 7/00, H03J 9/00 take precedence; for bandspreading H03J 3/10) with variable tuning element having a number of predetermined settings and adjustable to a desired one of these settings {Discontinuous tuning using an electrical variable impedance element, e.g. a voltage variable reactive diode, by selecting the corresponding analogue value between a set of non preset values} {Discontinuous tuning using an electrical variable impedance element, e.g. a voltage variable reactive diode, by selecting the corresponding analogue value between a set of non preset values}
5/00 5/02 5/0209 5/0218	 capacitors Discontinuous tuning; Selecting predetermined frequencies; Selecting frequency bands with or without continuous tuning in one or more of the bands, e.g. push-button tuning, turret tuner (H03J 7/00, H03J 9/00 take precedence; for bandspreading H03J 3/10) with variable tuning element having a number of predetermined settings and adjustable to a desired one of these settings {Discontinuous tuning using an electrical variable impedance element, e.g. a voltage variable reactive diode, by selecting the corresponding analogue value between a set of non preset values} {Discontinuous tuning using an electrical variable impedance element, e.g. a voltage variable reactive diode, by selecting the corresponding analogue value between a set of non preset values}
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5/00 5/02 5/0209 5/0218	 capacitors Discontinuous tuning; Selecting predetermined frequencies; Selecting frequency bands with or without continuous tuning in one or more of the bands, e.g. push-button tuning, turret tuner (H03J 7/00, H03J 9/00 take precedence; for bandspreading H03J 3/10) with variable tuning element having a number of predetermined settings and adjustable to a desired one of these settings {Discontinuous tuning using an electrical variable impedance element, e.g. a voltage variable reactive diode, by selecting the corresponding analogue value between a set of non preset values} {Discontinuous tuning using an electrical variable impedance element, e.g. a voltage variable reactive diode, by selecting the corresponding analogue value between a set of non preset values} {Discontinuous tuning using an electrical variable impedance element, e.g. a voltage variable reactive diode, by selecting the corresponding analogue value between a set of non preset values} {Usicontinuous tuning using an electrical variable impedance element, e.g. a voltage variable reactive diode, by selecting the corresponding analogue value between a set of preset values} {Using a counter}
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5/00 5/02 5/0209 5/0218 5/0227 5/0236	 capacitors Discontinuous tuning; Selecting predetermined frequencies; Selecting frequency bands with or without continuous tuning in one or more of the bands, e.g. push-button tuning, turret tuner (H03J 7/00, H03J 9/00 take precedence; for bandspreading H03J 3/10) with variable tuning element having a number of predetermined settings and adjustable to a desired one of these settings {Discontinuous tuning using an electrical variable impedance element, e.g. a voltage variable reactive diode, by selecting the corresponding analogue value between a set of non preset values} {Discontinuous tuning using an electrical variable impedance element, e.g. a voltage variable reactive diode, by selecting the corresponding analogue value between a set of non preset values} {Discontinuous tuning using an electrical variable impedance element, e.g. a voltage variable reactive diode, by selecting the corresponding analogue value between a set of preset values} {Using a counter} {with possibility to skip over certain counter positions, i.e. channel skipping, or scanning the counter position with a variable frequency rate} {Discontinuous tuning using an electrical variable impedance element, e.g. a voltage variable reactive diode, in which no corresponding analogue value either exists or is preset, i.e. the tuning information is only available in a digital

5/0263	• • • {the digital values being held in an auxiliary non erasable memory}
5/0272	• • {the digital values being used to preset a counter or a frequency divider in a phase
	locked loop, e.g. frequency synthesizer}
5/0281	• • • {the digital values being held in an auxiliary non erasable memory}
5/029	• • • {with channel skipping capability}
5/04	• • operated by hand
5/06	•••• Settings determined by single indexing means
	with snap action
5/08	Settings determined by a number of separately- actuated positioning means
5/10	Settings determined by a number of positioning means mounted on a common support, {e.g. turret tuner,} which is adjustable to desired positions, a different positioning means being in operation in each position
5/12	Settings determined by a number of separately-
	actuated driving means which adjust the tuning
5/14	element directly to desired settings
5/14 5/143	• • operated by auxiliary power
5/143	• • • {Settings determined by a number of positioning means mounted on a common
	support, e.g. turret tuner, which is adjustable to determined positions, a different positioning means being in operation in each position}
5/146	• • • {Settings desired by a switch controlled
	together with the tuning member and which
	stops the control as soon as a desired position is
	reached}
5/16	Settings determined by a number of separate
	positioning means actuated by hand
5/18	Settings determined by a number of separate
	positioning means actuated by electromagnets
5/20	Settings determined by a number of positioning
	means actuated by a second means adjustable to different positions by the same or by a second auxiliary power
5/22	Settings determined by a number of separately
	actuated driving means which adjust the tuning
	element directly to desired settings
5/24	• with a number of separate pretuned tuning circuits
	or separate tuning elements selectively brought into
	circuit, e.g. for waveband selection or for television
	channel selection
5/242	• • {used exclusively for band selection}
5/244	• • • {using electronic means}
5/246	• { using electronic means (<u>H03J 5/244</u> takes
	precedence)}
5/248	• • {using electromechanical means}
5/26	• • operated by hand
5/28	Tuning circuits or elements supported on a
	revolving member with contacts arranged in a plane perpendicular to the axis
5/30	Tuning circuits or elements supported on a
	revolving member with contacts arranged in
	lines parallel to the axis
5/32	Stationary tuning circuits or elements selected
	by push-button
7/00	Automatic frequency control; Automatic scanning
	over a band of frequencies
7/02	• Automatic frequency control (H03J 7/18 takes
	precedence)

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7/023	• • {Neutralization of the automatic frequency correction during a tuning change}
7/026	
7/026	• • {Means preventing a wrong working of the automatic frequency correction in case of fading
	or bad signal/noise ratio}
7/04	• where the frequency control is accomplished by
7/04	varying the electrical characteristics of a non-
	mechanically adjustable element or where the
	nature of the frequency controlling element is not
	significant
7/042	• • • {with reactance tube}
7/045	• • • {Modification of automatic frequency control
	sensitivity or linearising automatic frequency
	control operation; Modification of the working
	range (<u>H03J 7/10</u> takes precedence)}
7/047	• • • {Automatic frequency control using an
	auxiliary signal, e.g. low frequency scanning
	of the locking range or superimposing a special
	signal on the input signal }
7/06	using counters or frequency dividers
7/065	• • • • { the counter or frequency divider being used
-	in a phase locked loop}
7/08	using varactors, i.e. voltage variable reactive
7/10	diodes (<u>H03J 7/06</u> takes precedence)
7/10	Modification of automatic frequency control sensitivity or linearising automatic frequency
	control operation
7/12	Combination of automatic frequency control
	voltage with stabilised varactor supply
	voltage
7/14	Controlling the magnetic state of inductor cores
	(H03J 7/06 takes precedence)
7/16	• • where the frequency control is accomplished by
- 40	mechanical means, e.g. by a motor
7/18	• Automatic scanning over a band of frequencies
7/183	• • {combined with selection between different stations transmitting the same programm, e.g. by
	analysis of the received signal strength}
7/186	 • {using two or more tuners}
7/20	 where the scanning is accomplished by
1120	varying the electrical characteristics of a non-
	mechanically adjustable element {(H03J 7/183
	takes precedence)}
7/22	in which an automatic frequency control circuit
	is brought into action after the scanning action
= 10.1	has been stopped (<u>H03J 7/24</u> takes precedence)
7/24	using varactors, i.e. voltage variable reactive
7/26	 diodes (<u>H03J 7/28</u> takes precedence) in which an automatic frequency control
//20	circuit is brought into action after the
	scanning action has been stopped
7/28	using counters or frequency dividers
7/285	• • • • {the counter or frequency divider being used
	in a phase locked loop}
7/30	• • where the scanning is accomplished by
	mechanical means, e.g. by a motor
7/305	• • • {in which an automatic frequency control
	circuit is brought in action after the scanning
7/32	action has been stopped } with simultaneous display of received
1134	frequencies, e.g. panoramic receivers
	1

9/00	Remote-control of tuned circuits; Combined remote-control of tuning and other functions, e.g. brightness, amplification (mechanical remote-control arrangements H03J 1/00 {; using a
	microprocessor H03J 1/0025; constructional details of
	remote control switching devices <u>H01H 9/0235</u> })
9/002	 {comprising one or more tuning stages separated from the rest of a receiver}
9/005	• {using non-electrical means without push-button control, e.g. pneumatic, hydraulic or sound wave transmission, Bowden cables}
9/007	• {by voltages or currents with different frequencies or phases}
9/02	• using radio transmission; using near-field transmission
9/04	• using ultrasonic, sonic or infrasonic waves
9/06	• using electromagnetic waves other than radio waves, e.g. light
2200/00	Indexing scheme relating to tuning resonant circuits and selecting resonant circuits
2200/01	• Circuitry controlling the selecting or switching
2200/02	action
2200/02	 Algorithm used as input for AFC action alignment receiver
2200/03	• Alignment of a receiver during fabrication
2200/04	Alignment of a transmitter during fabrication
2200/05	• Alignment of transmitter with a receiver, after fabrication
2200/06	• Tuning of antenna
2200/07	• Calibration of receivers, using quartz crystal oscillators as reference
2200/08	• Calibration of receivers, in particular of a band pass filter
2200/09	Calibration of oscillator in receiver, using an external carrier frequency as reference
2200/10	• Tuning of a resonator by means of digitally
2200/11	 controlled capacitor bank Cellular receiver, e.g. GSM, combined with a GPS
2200/12	receiver . Radio receiver combined with a GPS receiver
2200/13	. Television receiver combined with a GPS receiver
2200/14	Tunable filter in receiver contributing to image rejection
2200/15	• Tuning of resonator by means of digitally controlled inductor bank
2200/16	· Interpolation of control values for varicaps
2200/17	• Elimination of interference caused by harmonics of local oscillator
2200/18	• Tuning of a master filter in order to tune its slave filter
2200/19	Resonator in MEMS technology
2200/20	• Radio receiver with possibility to choose a station with a certain program style
2200/21	• Television receiver with possibility to choose a station with a certain program style
2200/22	• Remote control device controlling cursor and/or including a cursor detecting device
2200/23	. Remote control device with display showing data to
2200/24	be transmitted to the controlled apparatus
2200/24	Remote control device with display showing program content
2200/25	. Remote control device with display
2200/26	Remote control device with touch screen display

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2200/27	• Adjusting the seek sensitivity of a scanning or
	sweeping receiver
2200/28	Automatic self-alignment of a receiver
2200/29	Self-calibration of a receiver
2200/30	. Radio receiver with speech synthesis ability, used
	for conveying information that is shown on the display
2200/31	Several sweeping or scanning speeds
2200/32	Tuning of tracking filter
2200/33	• Tuning of filter by controlling transconductance
2200/34	• Tuning of oscillator by controlling transconductance
2200/35	. Inductance tunable by switching in/out parts of the
	inductor
2200/36	Circuit arrangements for, e.g. increasing the
	tuning range, linearizing the voltage-capacitance
	relationship, lowering noise, constant slope in
	different bands
2200/37	• Control voltage applied to the anode of the varicap
2200/38	• Control voltage applied to the cathode of the varicap
2200/39	Variable capacitors implemented using
	microelectro-mechanical systems [MEMS]
2200/40	. Conversion to a zero or near-zero intermediate
	frequency