

H03J

TUNING RESONANT CIRCUITS; SELECTING RESONANT CIRCUITS

Definition statement

This place covers:

- tuning of resonating circuits, in particular RLC circuits in which the inductance and/or the capacitance is controlled;
- this subclass also covers 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 circuits and of supplementary resonant circuits.

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Indicating arrangements for measuring	G01D
Measuring, testing	G01R
Control in general	G05
Signalling	G08
Resonator consisting of distributed elements	H01P
Antennas	H01Q
Oscillators	H03B
Filters comprising lumped elements	H03H
Automatic control or stabilisation of generators	H03L
Radio receiver circuits	H04B
Calibrating and monitoring of receivers and transmitters	H04B 17/00
Television receiver circuits	H04N

H03J 1/00

Details of adjusting, driving, indicating, or mechanical control arrangements for resonant circuits in general

Definition statement

This place covers:

- Control circuits that consist of a microprocessor: [H03J 1/0008](#) - [H03J 1/0091](#);
- Indicating arrangements, such as used on the display of receiving apparatus: [H03J 1/02](#) - [H03J 1/048](#);
- Driver or adjusting arrangements, being mechanical means for driving the tunable components: [H03J 1/06](#) - [H03J 1/22](#).

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Machine elements in general	F16
Couplings for transmitting rotation	F16D

H03J 3/00

Continuous tuning ([H03J 7/00](#), [H03J 9/00](#) take precedence; combination of continuous and discontinuous tuning other than for bandspreading [H03J 5/00](#))

Definition statement

This place covers:

Tuned circuits in which the tuning (or control) signal is continuously applied to the resonating circuit.

References

Limiting references

This place does not cover:

Combination of continuous and discontinuous tuning other than for bandspreading	H03J 5/00
Automatic frequency control; Automatic scanning over a band of frequencies	H03J 7/00
Remote-control of tuned circuits; Combined remote-control of tuning and other functions, e.g. brightness, amplification	H03J 9/00

H03J 3/04

Arrangements for compensating for variations of physical values, e.g. temperature

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Controlling non-electric variables	G05D
------------------------------------	----------------------

H03J 3/06

Arrangements for obtaining constant bandwidth or gain throughout tuning range or ranges

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Automatic gain control	H03G
------------------------	----------------------

H03J 5/00

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](#))

Definition statement

This place covers:

- Tuned circuits in which the tuning (or control) signal is not continuously applied to the resonating circuit;
- Radio frequency filters used for bandswitching in receivers and transmitters.

References

Limiting references

This place does not cover:

Tuning for bandspreading	H03J 3/10
Automatic frequency control; Automatic scanning over a band of frequencies	H03J 7/00
Remote-control of tuned circuits; Combined remote-control of tuning and other functions, e.g. brightness, amplification	H03J 9/00

H03J 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

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Electric switches in general	H01H
------------------------------	----------------------

H03J 7/00

Automatic frequency control; Automatic scanning over a band of frequencies

Definition statement

This place covers:

- Automatic frequency control circuits, such as used in radio and television receivers: [H03J 7/02](#) - [H03J 7/16](#);
- Automatic scanning over a band of frequencies, with or without microcomputer controlled circuits: [H03J 7/18](#) - [H03J 7/32](#).

References

Limiting references

This place does not cover:

Automatic frequency control (H03J 7/18 takes precedence)	H03J 7/02
---	---------------------------

Informative references

Attention is drawn to the following places, which may be of interest for search:

Automatic tuning control for television receivers	H04N 5/50
---	---------------------------

H03J 7/02

Automatic frequency control ([H03J 7/18](#) takes precedence)

References

Limiting references

This place does not cover:

Automatic scanning over a band of frequencies	H03J 7/18
---	---------------------------

Informative references

Attention is drawn to the following places, which may be of interest for search:

Automatic tuning control for television receivers	H04N 5/50
---	---------------------------

H03J 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 [H01H 9/0235](#)})

Definition statement

This place covers:

Remote control of tuned circuits such as used in television and radio receivers and consumer electronics in general.

References

Limiting references

This place does not cover:

Mechanical remote-control arrangements	H03J 1/00
Using a microprocessor	H03J 1/0025
Constructional details of remote control switching devices	H01H 9/0235

Informative references

Attention is drawn to the following places, which may be of interest for search:

Universal remote controls	H04B 1/20
Remote control of television receivers	H04N
Housing of remote controls	H05K 9/00