Wireless Patents

A Summary of Recently Accepted Specifications

The following abstracts are prepared, with the permission of the Controller of H.M. Stationery Office, from Specifications obtainable at the Patent Office, 25, Southampton Buildings, London, W.C.2, price 1/- each

AERIALS AND AERIAL SYSTEMS

525 159.—Horn-shaped short-wave aerials showing a substantially-uniform impedance over a wide frequency-band, particularly for television.

Marconi's W.T. Co. (communicated by P. S. Carter). Application date 15th February, 1939.

525 720.—Aerial consisting of a network of wires enclosed by, or sprayed or stuck on, the moulded material of the roof of a motor-car.

Daimler-Benz Akt. Convention date (Germany) 10th March, 1938.

526 121.—Arrangement of a main and "compensating" aerial to eliminate static disturbance from a wireless receiving set.

G. de Monge. Convention date (Belgium) 21st November, 1938.

DIRECTIONAL WIRELESS

524 701.—Indicator for a direction-finding equipment of the kind which "counts" the dots and dashes emitted by a rotating beam.

C Lorenz Akt. Convention date (Germany) 4th February, 1938.

525 180.—Stabilised indicating device for a wireless direction finder normally subject to severe mechanical vibration.

Standard Telephones and Cables; F. N. Scaife; and C. W. Earp. Application date 17th February, 1939.

525 182.—Direction-finding system depending upon the use of a beacon station which radiates simultaneously, or alternately, two different modulation notes on the same carrier wave.

Standard Telephones and Cables and C. W. Earp. Application date 17th February, 1939.

525 359.—Directional beacon transmitter for radiating in phase-opposition cardioid fields of energy modulated with navigational signals.

F. G. Kear. Application date 20th February, 1939.

525 393.—Direction-finding system in which the location of a number of different transmitters is simultaneously shown on a cathode-ray indicator.

M. Wallace. Convention date (France) 21st February, 1938.

RECEIVING CIRCUITS AND APPARATUS

(See also under Television)

524 359.—Automatic tuning control system in which a relay is arranged to cut out the current to a tuning reactance at a predetermined point.

Marconi's W. T. Co. and V. J. Cooper. Application date 28th January, 1939.

524 373.—Arrangement of the tuning elements in a switch-tuned radio receiver, where one fixed reactance element is used in common.

Philips' Lamps. Convention date (Germany) 16th May, 1938.

524 410.—Selector device for operating the motor of a remote-controlled tuning system for a wireless set.

M. Yardeny. Application date 30th January, 1939.

524 499.—Tuned coupling system in which the coupling coils are provided with highly conductive movable cores for giving constant amplification over a wide band of frequencies.

Radio-Akt. D. S. Loewe. Convention dates (Germany) 26th October and 18th December, 1937.

524 537.—Commutator switch for arresting the driving motor of a push-button tuning system.

E. K. Cole; A. Shackell; and F. W. O. Kennedy. Application date 1st February, 1939.

524 549.—Coupling network, including a dead-end filter, for maintaining a substantially constant impedance over a wide band of frequencies.

Hazeltine Corpn. (assignees of H. A. Wheeler). Convention date (U.S.A.) 22nd April, 1938.

524 690.—Single-knob tone-control device in which maximum high-note response is followed first by a gradual increase of the lower notes and then by a reduction of the high notes.

E. K. Cole and A. W. Martin. Application date 3rd February, 1939.

524 752.—Braking arrangement in which the voltage from a highly-selective circuit is used to stop the movement of the tuning elements in a wireless receiver fitted with automatic tuning control.

Philips' Lamp Co. Convention date (Netherlands) 8th February, 1938.

525 128.—Mechanical linkage for ensuring the accurate operation of the push-button tuning-control system of a wireless receiver.

Felgate Radio and A. S. Williams. Application date 14th February, 1939.

525 135.—Combination of a wireless receiver and loud speaker with an article of furniture, such as a smoker's stand.

D. J. Crowley. Convention date (U.S.A.) 21st March, 1938.

TELEVISION CIRCUITS AND APPARATUS

FOR TRANSMISSION AND RECEPTION

524 039.—Means for preventing "overload" in a saw-toothed oscillation-generator of the back-coupled type as used for television.

Telefunken Co. Convention date (Germany) 20th January, 1938.

524 226.—Arrangement in which the effective mains-supply voltage to the anode of a cathode-ray tube is increased by the voltage across the associated time-base circuit.

Kolster-Brandes and D. S. B. Shannon. Application date 24th January, 1939.

D

524 230.—Cathode-ray tube with a crystalline screen upon which a picture or other visible signal is recorded in permanent or semi-permanent form.

Scophony and A. H. Rosenthal. Application date 24th January, 1939.

524 286.—Differentiating circuit for separating the frame and line scanning impulses, used in television, by virtue of their phase-difference.

W. Jones and Pye. Application date 25th January, 1939.

524 416.—Modulating system, particularly for television in which one quarter-wave transmission line carrying the carrier current is coupled to a second quarter-wave line carrying the signal frequencies.

Marconi's W.T. Co. (assignees of J. W. Conklin). Convention date (U.S.A.) 29th January, 1938.

524 443.—Cathode-ray television system for transmitting three-colour pictures with a high degree of fidelity for a given band of frequencies.

G. Valensi. Convention dates (France) 17th January, 30th April, and 1st June, 1938.

524 672.—Means for automatically controlling brightness or detail-contrast in a television receiver.

Kolster-Brandes and C. N. Smyth. Application date 7th February, 1939.

524 776.—Superhet television receiver for multiple programmes fitted with push-button tuning control.

Kolster-Brandes and C. N. Smyth. Application date 7th February, 1939.

524 907.—Transmission system for a wide band of frequencies, such as is used in television, and comprising a compensating network of attenuation-equaliser sections, (Addition to 495 815).

Electric and Musical Industries and F. R. Trott. Application date 10th February, 1939.

524 908.—Means for counter balancing frequency distortion in a transmission cable for television signals. (Addition to 495 815).

Electric and Musical Industries; F. R. Trott; and J. Collard. Application date 10th February, 1939.

525 000.—Construction and assembly of box-like deflection-electrodes for a cathode-ray television receiver.

Marconi's W.T. Co. (communicated by Radio Corporation of America). Application date 10th February, 1939.

525 049.—Preventing interaction between the line and frame scanning impulses in the time-base unit of a television receiver.

The General Electric Co.; R. J. Clayton; and G. W. Edwards. Application date 13th February, 1939.

525 543.—Television system in which the use of a "storage" screen in a cathode-ray tube at the receiving end allows the image-repetition frequency at the transmitting end to be reduced.

Radio-Akt. D. S. Loewe. Convention date (Germany) 12th August, 1937.

TRANSMITTING CIRCUITS AND APPARATUS

(*See also under Television.*)

525 022.—Modulating circuit for very short waves in which the modulating stage is prevented from reacting on the carrier-wave generator.

Telefunken Co. Convention date (Germany) 11th February, 1938.

525 126.—Means for preventing any tendency to "sing" in a negative feed-back amplifier with an output bridge-network.

Standard Telephones and Cables (assignees of F. B. Anderson; A. W. Clement; and I. G. Wilson). Convention date (U.S.A.) 15th April, 1938.

525 127.—Means for preventing "singing," and reducing distortion, in a wireless modulator using negative feed-back.

Standard Telephones and Cables (assignees of C. F. P. Rose). Convention date (U.S.A.) 13th April, 1938.

525 145.—Thermionic valve of the cathode-ray type with a number of deflecting electrodes suitable for summing or combining the effect of a series of electrical magnitudes, e.g. in a tune-delay network or artificial line.

H. E. Kallmann. Application date 15th February, 1939.

525 166.—Circuit for modulating or demodulating signals in a suppressed carrier-wave signalling system.

Siemens Bros. and Co. and M. Read. Application date 16th February, 1939.

CONSTRUCTION OF ELECTRONIC-DISCHARGE DEVICES

524 658.—Electron-multiplier provided with means for periodically renewing the "active" coating on the secondary-emission electrodes.

Standard Telephones and Cables. Application date 3rd February, 1939.

524 659.—Thermionic valve in which a tubular copper cathode is supported upon a heater element of coated tungsten in the form of a "tensioned hairpin."

Standard Telephones and Cables and F. D. Goodchild. Application date 3rd February, 1939.

525 181.—Cathode-ray tube in which part of the neck is made rectangular on cross-section to accommodate the magnetic deflecting-coils.

Kolster-Brandes and C. N. Smyth. Application date 17th February, 1939.

525 218.—Cathode-ray tube in which a glass ring forms part of the closure, and takes the connecting-leads to the internal electrodes.

C. Lorenz Akt. Convention date (Germany) 16th February, 1938.

SUBSIDIARY APPARATUS AND MATERIALS

523 640.—Cathode-ray tube signalling or switching circuit in which the selection of one of a number of relays is effected by deflecting the electron beam.

Automatic Telephone and Electric Co. and A. P. B. Renshaw. Application date 11th January, 1939.

524 111.—Arrangement for screening the ignition system of an internal-combustion engine to prevent the radiation of "static" interference.

J. Marr. Application date 23rd January, 1939.

524 477.—Preventing "static" radiation from a constant-voltage dynamo of the kind in which a vibratory "regulator" is used.

J. Marr. Application date 31st January, 1939.

524 893.—Condenser fitting to the spark ignition coil of an internal-combustion engine to prevent the radiation of "static" disturbance.

J. Lucas and E. A. Watson. Application date 10th February, 1939.

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