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|-------|--|--------|---|
| 850   | <b>UNDERWATER</b>  | 855.5  | ..Digital signal processing in subsurface transmitter                                     |
| 851   | .Ship guidance system  | 855.6  | ...Having acoustic sensor   |
| 852   | .Electrodes and electrode systems  | 855.7  | .Modification of signal bandwidth, frequency, or circuit impedance at subsurface location |
| 853.1 | <b>WELLBORE TELEMETERING OR CONTROL (E.G., SUBSURFACE TOOL GUIDANCE, DATA TRANSFER, ETC.)</b>  | 855.8  | .Including specified power transmission feature or source (e.g., battery, etc.)           |
| 853.2 | .Diagnostic monitoring or detecting operation of communications equipment or signal            | 855.9  | ..Specified alternating current (A.C.) circuit feature                                    |
| 853.3 | .Selective control of subsurface equipment   | 856.1  | .In horizontal or inclined passage arrangement  |
| 853.4 | ..In horizontal or inclined drilling or passage  | 856.2  | .With expandable or inflatable sensor element or mounting                                 |
| 853.5 | ...Control of drilling apparatus using magnetic field  | 856.3  | .Including particular sensor  |
| 853.6 | ..Control of drill bit or apparatus (e.g., steering, speed, etc.)                              | 856.4  | ..Acoustic or vibratory (e.g., sonic, fluidic, etc.)                                      |
| 853.7 | .Repeater in subsurface link (e.g., cable, etc.)   | 870.01 | <b>CONTINUOUSLY VARIABLE INDICATING (E.G., TELEMETERING)</b>                              |
| 853.8 | .With orientation sensing of subsurface telemetering equipment (other than drilling equipment) | 870.02 | .With meter reading   |
| 853.9 | .Including detail of subsurface signal storage (e.g., memory, recorder, register, etc.)        | 870.03 | ..Having plural transmitters  |
| 854.1 | .With position or depth recording (e.g., line payout, equipment locator, etc.)                 | 870.04 | .With calibration   |
| 854.2 | ..Location of collar or stuck tool   | 870.05 | .With calculation   |
| 854.3 | .Using a specific transmission medium (e.g., conductive fluid, annular spacing, etc.)          | 870.06 | ..Plural transmitters (e.g., ratio)   |
| 854.4 | ..Drill string or tubing support signal conduction   | 870.07 | .Combined (TM system with other system)   |
| 854.5 | ..Wellbore casing or ground  | 870.08 | ..Radio dial  |
| 854.6 | ..Electromagnetic energy (e.g., radio frequency, etc.)   | 870.09 | ..With alarm or annunciator (concurrent with TM)  |
| 854.7 | ...Optical link (e.g., waveguide, etc.)  | 870.1  | .For radio sonde  |
| 854.8 | ...Near field coupling (e.g., inductive, capacitive, etc.)                                     | 870.11 | .Plural transmitters  |
| 854.9 | ..Cable or wire (e.g., conductor as support, etc.)   | 870.12 | ..Frequency division multiplex  |
| 855.1 | ...Coupling connection structural feature  | 870.13 | ..Time division multiplex   |
| 855.2 | ...Single conductor cable or wire  | 870.14 | ...Using particular sync  |
| 855.3 | .Multiplexed signals   | 870.15 | ..With plural receiver  |
| 855.4 | .Pulse or digital signal transmission  | 870.16 | .Condition responsive   |
|       |  | 870.17 | ..Temperature   |
|       |  | 870.18 | .Using a particular modulation (e.g., phase, frequency, or amplitude)                     |
|       |  | 870.19 | ..Pulse   |
|       |  | 870.2  | ...Pulse repetition   |
|       |  | 870.21 | ...Analog to digital function converter   |
|       |  | 870.22 | ...Permutation code   |
|       |  | 870.23 | ...Increase pulses plus decrease pulses   |
|       |  | 870.24 | ...Pulse duration (e.g., pulse train)   |
|       |  | 870.25 | .Phase variation  |

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|--------|--|-------|--|
| 870.26 | .Frequency variation   | 912   | ..Standby cycling implemented if<br>invalid transmission received<br>or loss of transmission occurs                        |
| 870.27 | .Plural circuits, each for<br>particular magnitude   |       |  |
| 870.28 | .Via radiant energy beam (via<br>particular energy)  | 913   | ..Offset control   |
| 870.29 | ..Photoelectric cell pickup  | 914   | ..Split control  |
| 870.3  | ..With particular transmitter<br>(e.g., piezoelectric, dynamo)   | 915   | ..Central station includes<br>display of status of<br>indicators   |
| 870.31 | ..Inductive transmitter  | 916   | .Intersection normally under<br>local controller   |
| 870.32 | ...Mutual inductance   |       |  |
| 870.33 | ....Flux valve type (e.g., with<br>movable saturating magnet)  | 917   | ..Controller responsive to<br>traffic detectors  |
| 870.34 | ....Self-synchronous type  | 918   | ...Controller, when changing<br>right of way, alters or skips<br>normal "go" cycle of street<br>having no traffic detected |
| 870.35 | ....Differential type  |       |  |
| 870.36 | .....Linear variable differential<br>transformer (LVDT)  |       |  |
| 870.37 | ..Capacitive transmitter   | 919   | ...Plural cross highways at<br>intersection each have traffic<br>detectors   |
| 870.38 | ..Resistive transmitter  |       |  |
| 870.39 | ..With supply voltage regulation<br>or compensation  | 920   | ....Density determines split   |
| 870.4  | ..With particular receiver (e.g.,<br>ratiometer)   | 921   | .....Extension of time   |
| 870.41 | ..Plural receivers   | 922   | ...Density determines split  |
| 870.42 | ..With feedback (e.g., reflex<br>along line)   | 923   | ...Extension of time   |
| 870.43 | ...Follow-up (e.g., circuit<br>rebalanced when upset)  | 924   | ..Local controller can be<br>superceded by central station<br>controller   |
| 870.44 | ..With discharge device (e.g.,<br>CRT)   | 925   | ..Pedestrian control   |
| 901    | <b>EXTERNAL CONDITION VEHICLE-<br/>MOUNTED INDICATOR OR ALARM</b>  | 926   | ..Manual setting of cycle length<br>and split times  |
| 902    | .Transmitter in another vehicle<br>(e.g., emergency vehicle)   | 927   | ..Rotating cam structure<br>(specific structure required)  |
| 903    | ..Relative distance between<br>vehicles (e.g., collision<br>alert)   | 928   | .Combined (e.g., toll systems,<br>one-way)   |
| 904    | .Transmitter in one vehicle only   | 929   | .Indication of time remaining<br>before change of phase  |
| 905    | .Highway information (e.g.,<br>weather, speed limits, etc.)  | 930   | ..Electromechanical movable<br>auxiliary indicator   |
| 906    | <b>OVERRIDE OF TRAFFIC CONTROL<br/>INDICATOR BY COMMAND<br/>TRANSMITTER</b>                                  | 931   | .Traffic control or local<br>controller failure indicator  |
| 907    | <b>TRAFFIC CONTROL INDICATOR</b>   | 932   | .Pacing (e.g., vehicle keeps pace<br>with sequentially activated<br>lights)  |
| 908    | .Portable  | 932.1 | .Pivoted   |
| 908.1  | ..Barricade marker   | 932.2 | <b>VEHICLE PARKING INDICATORS</b>  |
| 909    | .Plural intersections under<br>common central station control  | 933   | <b>VEHICLE DETECTORS</b>   |
| 910    | ..Central station responsive to<br>traffic detectors   | 934   | .Density   |
| 911    | ...Central station controls<br>offset (time between beginning<br>of same phase at adjacent<br>intersections) | 935   | .Discriminates vehicle direction   |
|        |  | 936   | .Speed and overspeed   |
|        |  | 937   | .With camera   |
|        |  | 938   | .Compensation for vehicle<br>remaining at sensor position  |
|        |  | 939   | .Environmental or drift<br>compensation  |
|        |  | 940   | .With pneumatic  |

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| 941 | .Inductive   | 980    | ..Indicator visible in pilot's line of sight through windscreen  |
| 942 | .Photoelectric   | 981    | .Aircraft beacons  |
| 943 | .Sonic or ultrasonic   | 982    | ..Lights communicate (e.g., direction, altitude, reference position to observer)   |
| 944 | <b>PEDESTRIAN GUIDANCE</b>   | 983    | .Obstruction beacon  |
| 945 | <b>AIRCRAFT ALARM OR INDICATING SYSTEMS</b>                            | 984    | <b>WATERCRAFT ALARM OR INDICATING SYSTEMS</b>  |
| 946 | .Nonairplane (e.g., balloon or helicopter)                             | 985    | .Navigation guides (e.g., channel lights)  |
| 947 | .Land-based landing guidance   | 986    | .Anchor movement   |
| 948 | ..Aircraft actuation of land-based landing guides                      | 987    | .Rudder position indicator   |
| 949 | ..Wind direction   | 988    | <b>VEHICLE POSITION INDICATION</b>   |
| 950 | ..Movable (e.g., rotatable) guides                                     | 989    | .At remote location  |
| 951 | ..Phased landing guidance (e.g., runway approach, landing, touchdown)  | 990    | ..With map display   |
| 952 | ..Particular energy guide source (e.g., sound, electric field, radio)  | 991    | ..Position indication transmitted by vehicle after receipt of information from local station   |
| 953 | ...Visual source   | 992    | ..Position indication transmitted at periodic intervals (e.g., distance travelled)   |
| 954 | ....Alignment of plural sources  | 993    | ..Position indication transmitted by local station to remote location  |
| 955 | ....Plural colors  | 994    | ..Vehicle's arrival or expected arrival at remote location along route indicated at that remote location (e.g., bus arrival systems) |
| 956 | ....Modulated light source   | 995.1  | .Map display   |
| 957 | ..Magnetic field guide   | 995.11 | ..Having plural maps   |
| 958 | .Docking guidance  | 995.12 | ..Transmission of map data to vehicle  |
| 959 | .Takeoff indicator   | 995.13 | ...Traffic information   |
| 960 | .Landing gear indicator  | 995.14 | ..Manipulation of map display or data  |
| 961 | .Potential collision with other aircraft                               | 995.15 | ...Having adjustable map (e.g., scalable, etc.)  |
| 962 | .Icing indicator   | 995.16 | ....Input device   |
| 963 | .Flight alarm  | 995.17 | ....Display change based on vehicle position   |
| 964 | ..Phased warnings for same flight condition                            | 995.18 | ...Particular data storage   |
| 965 | ..Tactile  | 995.19 | ..Route determination and display on map   |
| 966 | ..Stall  | 995.2  | ...Intersection turn guidance  |
| 967 | ..Attitude (including yaw, angle of attack, roll, pitch, glide slope)  | 995.21 | ....Off course, route re-search  |
| 968 | ..Wind shear   | 995.22 | .....Pattern matching  |
| 969 | ..Speed  | 995.23 | .....Specifying particular start/destination   |
| 970 | ..Altitude   | 995.24 | ..Including landmark information   |
| 971 | .Nonalarm flight indicator   | 995.25 | ..Including vehicle position correction  |
| 972 | ..Runway presentation  |        |  |
| 973 | ..Indicator of at least four flight parameters (altitude, speed, etc.) |        |  |
| 974 | ..Attitude   |        |  |
| 975 | ...Roll or pitch   |        |  |
| 976 | ...Glide slope or path   |        |  |
| 977 | ..Altitude   |        |  |
| 978 | ..Speed  |        |  |
| 979 | ..Heading (includes deviation from desired course)                     |        |  |

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| 995.26 | ..Including particular display structure (e.g., detachable, rolling map sheet, etc.)             | 435   | .Of relative distance from an obstacle                                |
| 995.27 | ..Including particular display feature (e.g., indication of direction, mileage, road type, etc.) | 436   | .Of collision or contact with external object                         |
| 995.28 | ..Including particular position/direction sensor   | 437   | ..Curb  |
| 996    | .Prerecorded message describes position  | 438   | .Internal alarm or indicator responsive to a condition of the vehicle |
| 425.5  | <b>LAND VEHICLE ALARMS OR INDICATORS</b>   | 439   | ..Operation efficiency (e.g., engine performance, driver habits)      |
| 426.1  | .Of burglary or unauthorized use   | 440   | ..Tilt, imbalance, or overload  |
| 427    | ..Of motorcycles or bicycles   | 441   | ..Speed of vehicle, engine, or power train                            |
| 428    | ..Responsive to changes in voltage or current in a vehicle electrical system                     | 442   | ..Tire deflation or inflation   |
| 429    | ..Responsive to inertia, vibration, or tilt  | 443   | ...By indirect detection means (e.g., height measurement)             |
| 430    | ..With entrance/exit time delay  | 444   | ...Relative wheel speed   |
| 426.11 | ..Including immobilization   | 445   | ...With particular telemetric coupling                                |
| 426.12 | ...User activated (e.g., car-jacking, etc.)  | 446   | ...Acoustic wave  |
| 426.13 | ..Remote control   | 447   | ...Radio wave   |
| 426.14 | ...Programmable  | 448   | ...Inductive  |
| 426.15 | ...Status indication   | 449   | ..Temperature   |
| 426.16 | ...Transmitter and receiver in vehicle   | 450   | ..Fluid level   |
| 426.17 | ...Transmitter on user   | 450.1 | ...Of hydraulic brake fluid   |
| 426.18 | ..Remote alarm   | 450.2 | ...Of fuel  |
| 426.19 | ...Using GPS (i.e., location)  | 450.3 | ...Of lubricant (e.g., engine oil)                                    |
| 426.2  | ...Cellular  | 451   | ..Fluid pressure  |
| 426.21 | ...Paging  | 452   | ...Of brake fluid   |
| 426.22 | ..Local indication   | 453   | ..Brake or clutch condition   |
| 426.23 | ...Exterior of vehicle   | 454   | ...Wear   |
| 426.24 | ..Including specified sensor   | 455   | ..Battery charging system condition                                   |
| 426.25 | ...Plural diverse sensors  | 456   | ..Gear position   |
| 426.26 | ...Detecting intruder energy (e.g., infrared, etc.)  | 457   | ..Reminder  |
| 426.27 | ..Window (i.e., glass)   | 457.1 | ...Of seat belt application   |
| 426.28 | ...Door or lock  | 457.2 | ...Of headlight energization  |
| 426.29 | ...Trunk or hood   | 457.3 | ...Of parking brake application                                       |
| 426.3  | ...Ignition switch   | 458   | ...Of service interval expiration                                     |
| 426.31 | ...Steering wheel  | 459   | ..Lamp or lamp circuit condition                                      |
| 426.32 | ...Brake   | 460   | ..Plural conditions   |
| 426.33 | ...Wheel/tire  | 461   | ...With voice warning   |
| 426.34 | ...Accessory (e.g., speaker, radio face plate, etc.)   | 462   | ...With particular display means                                      |
| 426.35 | ..Including programmable key   | 463   | ...Digital  |
| 426.36 | ..Including keyless entry  | 464   | .External alarm or indicator of movement                              |
| 431    | .For trailer   | 465   | ..Plural indications (e.g., go, slow, stop)                           |
| 432    | .For bicycle   | 466   | ..Turning or steering   |
| 433    | .For school bus  | 467   | ..Speed   |
| 434    | .For taxi  | 467   | ..Acceleration or deceleration  |
|        |  | 468   | .External signal light system   |

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| 469   | ..With two or more intensity levels (e.g., day or night)                        | 517    | ..Selection from a plurality of sensed conditions         |
| 470   | ..Pass - no pass  | 518    | ...Scanning   |
| 471   | ..Hazard warning or distress signalling   | 519    | ...Worst condition  |
| 472   | ...Auxiliary signal permanently attached to vehicle                             | 520    | ...First sensed exclusively indicated                     |
| 473   | ...Portable signal  | 521    | ...Plural diverse conditions                              |
| 474   | ..With audible signal   | 522    | ...Combined for response                                  |
| 475   | ..Turn signal   | 523    | ...Particular sequence of conditions                      |
| 476   | ...With automatic cancelling  | 524    | ...Condition position indicator                           |
| 477   | ...By predetermined time interval or distance                                   | 525    | ...Display board  |
| 478   | ...With plural bulbs sequentially flashed                                       | 526    | ..Predetermined rate of occurrence                        |
| 479   | ..Brake light   | 527    | ..Time delay  |
| 480   | ..Electromagnetically actuated mechanical signal                                | 528    | ...Entrance/exit  |
| 481   | ..Wigwag type   | 529    | ...Condition persistence                                  |
| 482   | ..Normally encased  | 530    | ...Capacitor  |
| 483   | ...Plural concurrent indicators   | 531    | ..With particular coupling link                           |
| 484   | ...Sliding sign or shutter  | 532    | ..Having particular safety function                       |
| 485   | ...Window exhibited sign or shutter   | 533    | ..Wired   |
| 486   | ....Drum  | 534    | ...Coded message  |
| 487   | ..Pivoting  | 535    | ...Mechanical code means (e.g., coded disc)               |
| 488   | ..Multiple indicators   | 536    | ...Noninterfering   |
| 489   | ...Three or more positions  | 537    | ...With impedance level coding                            |
| 490   | ....Vertical axis   | 538    | ...Combined with power line                               |
| 146.2 | <b>DIGITAL COMPARATOR SYSTEMS</b>   | 538.11 | ...Modulation technique                                   |
| 500   | <b>CONDITION RESPONSIVE INDICATING SYSTEM</b>                                   | 538.12 | ...Noise reduction (e.g., filtering)                      |
| 501   | ..With particular system function (e.g., temperature compensation, calibration) | 538.13 | ....Zero crossing   |
| 502   | ..Acknowledgement   | 538.14 | ...Impedance matching (e.g., Y-match or delta match)      |
| 503   | ...With ringback  | 538.15 | ...Bi-directional (e.g., with transceiver)                |
| 504   | ..Answer-back   | 538.16 | ...With inductive coupling (e.g., transformer or torroid) |
| 505   | ..Interrogator-responder  | 538.17 | ...With coupling plug                                     |
| 506   | ..Alarm system supervision  | 539.1  | ..Radio   |
| 507   | ...Fail-safe  | 539.11 | ..Including personal portable device                      |
| 508   | ...Redundant (e.g., added circuit or loop)                                      | 539.12 | ...Medical  |
| 509   | ...Plural or diverse current sources  | 539.13 | ...Tracking location (e.g., GPS, etc.)                    |
| 510   | ...Bridge or potential divider  | 539.14 | ..Including remote residential device                     |
| 511   | ...Threshold or window (e.g., of analog electrical level)                       | 539.15 | ...Parent/child device                                    |
| 512   | ...Pulse  | 539.16 | ...Including central station detail                       |
| 513   | ...Diode  | 539.17 | ...And remote station detail                              |
| 514   | ..Testing   | 539.18 | ....Dispatching   |
| 515   | ...Simulation of condition  | 539.19 | ....Programmable  |
| 516   | ...Automatic (e.g., periodic, start-up)   | 539.2  | ....Map   |

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| 539.21 | ....Signal strength   | 561   | ...Disturbance of electric field  |
| 539.22 | ...Having plural distinct sensors<br>(i.e., for surrounding<br>conditions)  | 562   | ....Capacitance   |
| 539.23 | ....Proximity   | 563   | .....With bridge  |
| 539.24 | ....Diagnostic  | 564   | .....Fence  |
| 539.25 | ....Including video   | 565   | ...Responsive to intruder energy  |
| 539.26 | ...Specific environmental sensor  | 566   | ...Vibration  |
| 539.27 | ....Heat  | 567   | ...Electromagnetic energy   |
| 539.28 | ....Weather   | 568.1 | ..Article placement or removal<br>(e.g., anti-theft)  |
| 539.29 | ....Dosimeter   | 568.2 | ...Signal-carrying conduit<br>between sensor and article<br>(e.g., cable, power cord, or<br>data link)  |
| 539.3  | ...Including power saving   | 568.3 | ....Power cord  |
| 539.31 | ...Including tamper resistant<br>device   | 568.4 | ....Specified connector (e.g.,<br>phone jack-type plug)   |
| 539.32 | ...Including location of<br>misplaced item  | 568.5 | ...Shopping cart or item thereon  |
| 540    | ..Specific condition  | 568.6 | ...Sporting equipment (e.g.,<br>golfbag, club, cart, or skis)   |
| 541    | ..Intrusion detection   | 568.7 | ...Currency, credit card, or<br>container therefor (e.g.,<br>wallet or handbag)                         |
| 542    | ...Lock   | 568.8 | ...Article on pedestal, in<br>display case, or mounted on<br>wall (e.g., work of art)                   |
| 543    | ...Permutation  | 569   | ...Mailbox  |
| 544    | ...Disturbance of fluid pressure  | 570   | ...Drawer   |
| 545.1  | ...Door or window movement  | 571   | ...Alarm on protected article   |
| 546    | ....Portable  | 572.1 | ...Detectable device on protected<br>article (e.g., "tag")  |
| 545.2  | ....Specified sensor  | 572.2 | ....Specified relationship<br>between field and detection<br>frequencies (e.g., nth order<br>harmonics) |
| 547    | .....Magnetic sensor  | 572.3 | ....Deactivatable by means other<br>than mere removal   |
| 548    | .....Plug or cord tension sensor  | 572.4 | ....Specified processing<br>arrangement for detected<br>signal  |
| 549    | .....Rotatable sensor   | 572.5 | ....Having tuned resonant circuit   |
| 545.3  | .....Sensing of electromagnetic<br>energy (e.g., light, infrared,<br>or microwave)                                  | 572.6 | ....Having "soft" magnetic<br>element (e.g., Permalloy)   |
| 545.4  | .....Sensing of electrical<br>parameter (e.g.,<br>piezoelectricity or<br>capacitance)                               | 572.7 | ....Specified antenna structure   |
| 545.5  | .....Inertia-type sensor (e.g.,<br>mercury or pendulum switch)  | 572.8 | ....Specified device housing or<br>attachment means   |
| 545.6  | ....Door, cover, or lid for self-<br>contained article (e.g.,<br>refrigerator, mailbox, drawer,<br>cabinet, or box) | 572.9 | .....Having means locking device<br>to article  |
| 545.7  | ....Specified door or window<br>portion (e.g., doorknob)  | 573.1 | ..Human or animal   |
| 545.8  | ....Specified door or window<br>attachment (e.g., shade or<br>blind)  | 574   | ...Holdup   |
| 545.9  | ....Plural doors or windows   | 575   | ...Sleep  |
| 550    | ...Partition penetration  | 576   | ...Drive capability   |
| 551    | ...Disturbance of magnetic field  | 573.2 | ...Nondomestic animal (e.g., for<br>hunting, fishing, or<br>repelling)                                  |
| 552    | ...Disturbance of electromagnetic<br>waves  |       |   |
| 553    | ....Standing waves  |       |   |
| 554    | ....Doppler effect  |       |   |
| 555    | ....Light   |       |   |
| 556    | .....Beam   |       |   |
| 557    | .....Laser  |       |   |

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| 573.3 | ...Domestic animal training, monitoring, or controlling  | 617    | ....Pulverant material (e.g., bin)                        |
| 573.4 | ...House arrest system, wandering, or wrong place  | 618    | ....Liquid  |
| 573.5 | ...Incontinence or enuresis alarm  | 619    | .....Optical sensor                                       |
| 573.6 | ...Water safety alarm  | 620    | .....Electrode probe                                      |
| 573.7 | ...Posture alarm   | 621    | .....Having sonic sensor                                  |
| 577   | ..Flame  | 622    | .....Having heat sensor                                   |
| 578   | ...By radiant energy   | 623    | .....Float sensor   |
| 579   | ...By ionization or conductivity   | 624    | .....Vertically reciprocable                              |
| 580   | ..Ice formation  | 625    | .....Pivoted arm  |
| 581   | ...Thermal   | 626    | ...Pressure   |
| 582   | ...Vibratory   | 627    | ...Particle suspension in fluid                           |
| 583   | ...Photoelectric   | 628    | ....Smoke   |
| 584   | ..Thermal  | 629    | .....Ionization   |
| 585   | ...Refrigerated storage  | 630    | .....Photoelectric  |
| 586   | ...Portable  | 631    | ....Lubricant   |
| 587   | ...False alarm resistant   | 632    | ...Gas  |
| 588   | ...Time-temperature relationship (e.g., overtemperature exceeds predetermined interval or time-temperature integral) | 633    | ...Catalytic detector                                     |
| 589   | ....Rate of temperature change   | 634    | ...Semiconductor detector                                 |
| 590   | ...Fusible, frangible, or destructible sensor  | 635    | ..Condition of electrical apparatus                       |
| 591   | ....Containing pressurized fluid   | 636.1  | ...Battery  |
| 592   | ...Expanding fluid sensor  | 636.11 | ...By change or rate of change of impedance or admittance |
| 593   | ...Switch sensor   | 636.12 | ...By current and voltage                                 |
| 594   | ....With bimetallic element  | 636.13 | ...By current   |
| 595   | ...Current modifier or generator   | 636.14 | .....Thermochromic indication                             |
| 596   | ....Cable or elongated probe   | 636.15 | ...By voltage   |
| 597   | ....Curie point sensor   | 636.16 | ...Having load detail                                     |
| 598   | ....Barrier-layer sensor   | 636.17 | ...Having overcharge detection or protection              |
| 599   | ....Bridge circuit   | 636.18 | .....Including temperature detection                      |
| 600   | ..Radiant energy   | 636.19 | ...Battery deterioration detection                        |
| 601   | ..Meteorological condition   | 636.2  | ...Including charging circuit                             |
| 602   | ...Moisture or humidity (e.g., rain)   | 636.21 | ...Wet cell type  |
| 603   | ..Fluent material  | 637    | ...Watt-hour meter  |
| 604   | ...Wetness   | 638    | ...Fuse or circuit breaker                                |
| 605   | ...Leakage   | 639    | ....Plural  |
| 606   | ...Flow rate   | 640    | ...Heater element   |
| 607   | ....Filter clogging  | 641    | ...Signalling light element                               |
| 608   | ....Stoppage   | 642    | ....Plural bulbs or filaments                             |
| 609   | ....Counting   | 643    | ....Thermal or magnetic current sensors                   |
| 610   | ....Vane in flow path  | 644    | ...Switch or relay  |
| 611   | ....Pressure   | 645    | ...Rectifier  |
| 612   | ...Material level  | 646    | ...Transformer  |
| 613   | ....Weight in container  | 647    | ...Insulation   |
| 614   | ....Pressure   | 648    | ...Motor  |
| 615   | ....Moving sensor (e.g., impeller)   | 649    | ...Condition of intentional grounding circuit             |
| 616   | ....Overflow   | 650    | ...Undesired circuit ground or short                      |

|       |                                      |        |   |
|-------|--------------------------------------|--------|---|
| 651   | ....For plural circuit conductors    | 691.7  | ..Mechanical  |
| 652   | ...Breaking of circuit continuity    | 691.8  | ..Control circuit detail  |
| 653   | ..Electronic circuit or component    | 693.1  | .Specified power supply   |
| 654   | ...Circuit energization              | 693.2  | ..Substitute or emergency source (e.g., back-up battery)          |
| 655   | ....Heating circuit                  | 693.3  | ..Having reduced power consumption (e.g., intermittent power)     |
| 656   | ....Electrical socket                | 693.4  | ..Having specified voltage regulator                              |
| 657   | ..Electrical characteristic          | 693.5  | .Specified housing  |
| 658   | ...Phase or frequency                | 693.6  | ..Configured to promote sensing capability (e.g., smoke detector) |
| 659   | ...Pulse or surge                    | 693.7  | ...Inserted battery required for housing closure                  |
| 660   | ...Voltage                           | 693.8  | ..Simulation  |
| 661   | ....Comparison                       | 693.9  | ..Having specified mounting structure                             |
| 662   | ....Overvoltage                      | 693.11 | ...To wall or ceiling   |
| 663   | ....Undervoltage                     | 693.12 | ...Within another housing   |
| 664   | ...Current                           | 1.1    | <b>SELECTIVE</b>  |
| 665   | ..Force or stress                    | 2.1    | .Path selection   |
| 666   | ...Weight                            | 2.2    | ..Channel selecting matrix  |
| 667   | ....On seat                          | 2.21   | ...Plural stages  |
| 668   | ...Tension                           | 2.22   | ....Clos type   |
| 669   | ..Acceleration                       | 2.23   | ....Alternate routing   |
| 670   | ..Velocity                           | 2.24   | ....Having master control element                                 |
| 671   | ...Angular                           | 2.25   | ...Folded   |
| 672   | ....Direction of shaft rotation      | 2.26   | ...Having master control element                                  |
| 673   | ..Article transport                  | 2.27   | ...Plural matrices  |
| 674   | ...Discrete articles                 | 2.28   | ...Crosspoint switch detail (i.e., specific crosspoint)           |
| 675   | ...Web, film, or strip               | 2.29   | ....Semiconductor   |
| 676   | ....Conveyor belt                    | 2.31   | ....Gas discharge   |
| 677   | ...Strand                            | 2.4    | ..Code or pulse responsive  |
| 678   | ..Of geometrical gauge               | 2.5    | ..Wiper   |
| 679   | ..Machine condition                  | 2.6    | ..Plural stages   |
| 680   | ..Machine tool                       | 2.7    | ..Condition of data channel                                       |
| 681   | ..Synchronization                    | 2.71   | ...Hunting  |
| 682   | ...Bearing                           | 2.9    | ..Spare channel   |
| 683   | ...Vibration                         | 2.8    | ..Data channel selector line                                      |
| 684   | ...Agricultural                      | 2.81   | ..Tree or cascade   |
| 685   | ...Cranes                            | 3.1    | .Monitoring in addition to control (e.g., supervisory)            |
| 686.1 | ..Position responsive                | 3.2    | ..Synchronization   |
| 687   | ...Connected or disconnected         | 3.21   | ...Time slot or packet  |
| 688   | ...Meter dial                        | 3.22   | ...Electromechanical (e.g., relay, rotary distributor)            |
| 689   | ...Tilt                              | 3.23   | ....Relay chain   |
| 690   | ...Geophysical (e.g., fault slip)    | 3.24   | ....Step-by-step  |
| 686.2 | ...Alignment or misalignment         | 3.3    | ..Including storage or recording                                  |
| 686.3 | ...Shaft or rotary element           | 3.31   | ...Storage at controlled device or sensor                         |
| 686.4 | ...One article inserted into another |        |   |
| 686.5 | ...Workpiece                         |        |   |
| 686.6 | ...Proximity or distance             |        |   |
| 691.1 | .Specified indicator structure       |        |   |
| 691.2 | ..Simulated effect                   |        |   |
| 691.3 | ..Degree or urgency                  |        |   |
| 691.4 | ..Plural                             |        |   |
| 691.5 | ...Diverse                           |        |   |
| 691.6 | ..Information display                |        |   |
| 692   | ..Sound reproducer                   |        |   |

|      |  |      |   |
|------|--|------|---|
| 3.32 | ...Storage at controller   | 5.23 | .....Programming from coded record to controller                                |
| 3.4  | ..Quiescent  | 5.24 | .....Using additional record or carrier code                                    |
| 3.41 | ...Collision avoidance   | 5.25 | .....Programming of coded record  |
| 3.42 | ..Control to avoid fault   | 5.26 | ....Code rotating or scrambling   |
| 3.43 | ..Fault condition detection                                      | 5.27 | ....Rule based input  |
| 3.44 | ...Control to correct fault                                      | 5.28 | ...Timed access blocking  |
| 3.5  | ..Including addressing   | 5.3  | ...Having indication of improper access   |
| 3.51 | ...Polling or roll call  | 5.31 | ....Lockout or disable  |
| 3.52 | ...Group address   | 5.32 | ....Visual indication   |
| 3.53 | ...Source address  | 5.33 | ....Including link to remote indicator  |
| 3.54 | ...Destination address   | 5.4  | ...Credit   |
| 3.55 | ....Pulse counting   | 5.41 | ....Banking or finance  |
| 3.6  | ..Scanning   | 5.42 | ....Debiting (e.g., rental)   |
| 3.61 | ...Continuous  | 5.5  | ...Input from central location for plural controlled devices                    |
| 3.62 | ...Interrupted   | 5.51 | ..Manual code input   |
| 3.63 | ....Automatic  | 5.52 | ....Biometrics  |
| 3.7  | ..Including indicator  | 5.53 | ....Image (e.g., fingerprint, face)   |
| 3.71 | ...Having manual control input                                   | 5.54 | ....Password  |
| 3.8  | ..Electromechanical relay  | 5.55 | ....Rotary input  |
| 3.9  | ..Control then monitoring  | 5.6  | ...Coded record input (e.g., IC card or key)                                    |
| 4.1  | ..Communication or control for the handicapped                   | 5.61 | ....Wireless transceiver  |
| 4.11 | ..Remote control   | 5.62 | ....Including manual switching means  |
| 4.12 | ..Tactile  | 5.63 | ....Including timing means (e.g., clock)  |
| 4.13 | ..Visual   | 5.64 | ....Wireless transmitter  |
| 4.14 | ..Audible  | 5.65 | ....Electronic coded record   |
| 4.2  | ..Synchronizing  | 5.66 | ....Magnetic coded record   |
| 4.21 | ..With addressing  | 5.67 | ....Mechanical coded record   |
| 4.3  | ..Program control  | 5.7  | ...Access barrier   |
| 4.31 | ..Operator initiated   | 5.71 | ....Garage door   |
| 4.32 | ..Download through data network                                  | 5.72 | ....Vehicle door  |
| 4.33 | ..Download through distribution network                          | 5.73 | ....Lockbox   |
| 4.34 | ..Enable/disable (e.g., kill machine signal, etc.)               | 5.74 | ...Access to electrical information   |
| 4.35 | ..Time sequential manner   | 5.8  | ..Authentication (e.g., identity)   |
| 4.36 | ..Machine tool   | 5.81 | ...Personal identification  |
| 4.37 | ..Of audio system  | 5.82 | ....Biometrics  |
| 4.4  | ..Audio reproducing system (e.g., by pulse signal, etc.)         | 5.83 | ....Image (Fingerprint, Face)   |
| 4.41 | ..Plural devices   | 5.84 | ....Voice   |
| 4.42 | ..Wireless   | 5.85 | ....Password  |
| 4.5  | ..Stock quotation  | 5.86 | ...Document authentication  |
| 4.51 | ..With information storage                                       | 5.9  | ..Commodity (e.g., vending)   |
| 4.6  | ..Space allocation (e.g., vehicle seat, hotel reservation, etc.) | 5.91 | ...Including merchandise information display system (e.g., store price display) |
| 4.61 | ..Remote terminal  | 5.92 | ...Item inventorying  |
| 4.62 | ..Wireless   |      |   |
| 5.1  | ..Intelligence comparison for controlling                        |      |   |
| 5.2  | ..Authorization control (e.g., entry into an area)               |      |   |
| 5.21 | ...Varying authorization   |      |   |
| 5.22 | ....Code programming   |      |   |

|      |   |       |  |
|------|---|-------|--|
| 6.1  | .Having indication or alarm   | 7.5   | ...Distress signal   |
| 6.11 | ..Additional to other selective control                             | 7.51  | ...Message presentation  |
| 6.12 | ..Party line  | 7.52  | ....Storing or retrieving message (e.g., received message database handling) |
| 6.13 | ...Selection by means of frequency                                  | 7.53  | ....Canned message (audible or visual)                                       |
| 6.14 | ...Selector or indicator, per se                                    | 7.54  | ....Via externally coupled device  |
| 6.15 | ...Step-by-step impulse   | 7.55  | ....Display  |
| 6.16 | ....Polarity controlled   | 7.56  | .....Including graphics  |
| 6.17 | ...Amplitude or polarity controlled                                 | 7.57  | ....Audible  |
| 7.1  | ..Paging to control diverse device                                  | 7.58  | ...Alert   |
| 7.2  | ..Code responsive (i.e., paging)                                    | 7.59  | ....Priority alert   |
| 7.21 | ...Two-way paging   | 7.6   | ....Vibratory (i.e., tactual) alarm  |
| 7.22 | ....Acknowledgment of message receipt                               | 7.61  | ....Visual   |
| 7.23 | .....Including reply to query                                       | 7.62  | ....Audible  |
| 7.24 | ...Transmitting configuration                                       | 7.63  | ...Housing detail  |
| 7.25 | ....Multiple transmitters   | 8.1   | ..Location indication  |
| 7.26 | .....Simulcast  | 9.1   | .Addressing  |
| 7.27 | .....Zoned  | 9.11  | ..Group addressing   |
| 7.28 | ...Paging terminal (i.e., element prior to the transmitter)         | 9.12  | ..Asynchronous   |
| 7.29 | ....Terminal connected to other network                             | 9.13  | ...Multiple discrete addresses   |
| 7.3  | ....Queuing   | 9.14  | ...Packet data   |
| 7.31 | ....Message input   | 9.15  | ..Including source address   |
| 7.32 | ...Power control or battery saving                                  | 9.16  | ..Programming of the address   |
| 7.33 | ....Based on received signal  | 9.17  | ..Plural part (e.g., digit, etc.) or repetitions                             |
| 7.34 | .....Frame based timing   | 10.1  | .Interrogation response  |
| 7.35 | .....Address based  | 10.2  | ..Contention avoidance   |
| 7.36 | .....Received signal includes power command                         | 10.3  | ..Interrogation signal detail  |
| 7.37 | ....Control based upon available power                              | 10.31 | ...Individual call   |
| 7.38 | ....Time based  | 10.32 | ...Group call  |
| 7.39 | ...Programming the receiver   | 10.33 | ...Wake up (all call)  |
| 7.4  | ....Via local device  | 10.34 | ...Power up  |
| 7.41 | ....Over the air  | 10.4  | ..Response signal detail   |
| 7.42 | ...Frequency scanning for address                                   | 10.41 | ...Combination response  |
| 7.43 | ...Particular message and address format (e.g., POCSAG, FLEX, etc.) | 10.42 | ...Identification only   |
| 7.44 | ....Having error detection or correction                            | 10.5  | ..Additional control   |
| 7.45 | ...Addressing format  | 10.51 | ...Programming (e.g., read/write)  |
| 7.46 | ....Group call  | 10.52 | ....ID code  |
| 7.47 | .....Source address   | 10.6  | ..Printout or display  |
| 7.48 | .....News information provider (e.g., sports, weather, etc.)        | 11.1  | .With multidigit encoder   |
| 7.49 | ....Tone code (i.e., frequency code)                                | 12.1  | .Pulse responsive actuation  |
|      |   | 12.11 | ..Phase or frequency shift keying  |
|      |   | 12.12 | ..Polarity   |
|      |   | 12.13 | ..Pulse pairs  |
|      |   | 12.14 | ..Having delay line  |
|      |   | 12.15 | ..Serial   |
|      |   | 12.16 | ...Pulse width   |
|      |   | 12.17 | ...Pulse spacing (e.g., pulse repetition rate, etc.)                         |
|      |   | 12.18 | ...Counting  |
|      |   | 12.19 | ....Relay  |

|       |   |        |   |
|-------|---|--------|---|
| 12.2  | ....Counting chain  | 13.35  | ...Permutation  |
| 12.21 | ...Shift register   | 13.36  | ...Corresponding to distinct functions                                      |
| 12.22 | ...Remote control   | 13.37  | .Amplitude responsive actuation   |
| 12.23 | ....Programming   | 13.38  | ..Divided resistor  |
| 12.24 | .....Operator initiated   | 14.1   | .Decoder matrix   |
| 12.25 | .....Download through data network                                | 14.2   | ..Plural stage  |
| 12.26 | .....Download through distribution network                        | 14.3   | ..Programmable  |
| 12.27 | .....Enable/disable (e.g., kill machine signal, etc.)             | 14.31  | ...Having fusible element   |
| 12.28 | .....Programming a controller                                     | 14.4   | ..Logic crosspoint  |
| 12.29 | .....Programming an appliance                                     | 14.5   | ..Bistable crosspoint   |
| 12.3  | ....Diverse delivery media (e.g., wired and wireless, etc.)       | 14.6   | ..Semiconductor crosspoint  |
| 12.31 | ....Wired   | 14.61  | ...Integrated circuit   |
| 12.32 | .....Power line (PLC)   | 14.62  | ...Transistor   |
| 12.33 | .....Modulation technique   | 14.63  | ....Field effect transistor   |
| 12.34 | .....Noise reduction (e.g., filtering, etc.)                      | 14.64  | ....Four or more electrode type   |
| 12.35 | .....Zero crossing  | 14.65  | ....Plural transistors in element   |
| 12.36 | .....Impedance matching (e.g., Y-match or delta match, etc.)      | 14.66  | ...Semiconductor diode  |
| 12.37 | .....Bi-directional (e.g., with transceiver, etc.)                | 14.67  | ....Charge storage  |
| 12.38 | .....With inductive coupling (e.g., transformer or torroid, etc.) | 14.68  | ....Plural diodes at crosspoint   |
| 12.39 | .....With coupling plug   | 14.69  | ...Switching element  |
| 12.4  | ....Data network  | 15.1   | .Having electron beam device  |
| 12.5  | ....Radio   | 16.1   | .System having rectifier  |
| 12.51 | .....RFID   | 286.01 | <b>SYSTEMS</b>  |
| 12.52 | ....Plural devices  | 286.02 | .Network signaling  |
| 12.53 | .....Diverse devices  | 286.03 | ..Speaking tube including circuit   |
| 12.54 | ....Indicator or display  | 286.04 | .Manual alarm telegraph; e.g., other than signal box type                   |
| 12.55 | ....Housing or casing   | 286.05 | ..Fire  |
| 13.1  | .Phase responsive actuation                                       | 286.06 | .Call station   |
| 13.2  | .Frequency responsive actuation                                   | 286.07 | ..Hospital  |
| 13.21 | ..Programming   | 286.08 | ..Hotel   |
| 13.22 | ..Diverse delivery media (e.g., wired and wireless, etc.)         | 286.09 | ..Restaurant  |
| 13.23 | ..Power line (PLC)  | 286.11 | .Annunciator  |
| 13.24 | ..Wireless link   | 286.12 | ..Drop annunciator  |
| 13.25 | ...Radio  | 286.13 | .Mimic  |
| 13.26 | ....RFID  | 286.14 | ..Mapping   |
| 13.27 | ...Plural frequencies   | 287    | .Signal box type (e.g., to call messenger, plural fire alarm boxes)         |
| 13.28 | ....Simultaneous  | 288    | ..Combined (e.g., alarm circuit over power line)                            |
| 13.29 | ....Permutation   | 289    | ...With fire extinguisher (e.g., CO2)                                       |
| 13.3  | ....Corresponding to distinct functions                           | 290    | ...Engine house apparatus controlling (e.g., releases horses, starts motor) |
| 13.31 | ...Indicator or display   | 291    | ..Repeaters (e.g., from central to plural fire houses or to siren)          |
| 13.32 | ...Housing or casing  | 292    | ..Circuit maintenance (e.g., fault alarm, faulty circuit substitution)      |
| 13.33 | ..Plural frequencies  |        |   |
| 13.34 | ...Simultaneous   |        |   |

|        |  |        |   |
|--------|--|--------|---|
| 293    | ..Variable signal (e.g., police and fire, first and third alarm)                 | 314    | ..Noncorrespondence alarm (e.g., if acknowledgement is incorrect)                             |
| 294    | ...Dial selector for variable signal   | 315    | .Selsyn type  |
| 295    | ..Noninterfering (prevents break-in by another box during transmission)          | 316    | .Rebalancing at receiver  |
| 296    | ..Key obstruction type   | 317    | ..Automatic rebalancing   |
| 297    | ..With signal at box (e.g., preliminary signal to combat false alarms)           | 318    | .Synchronous distributor at transmitter and receiver  |
| 298    | ..Answer back signal acknowledges transmitted signal                             | 319    | .Plural electromagnets or plural motors receiver  |
| 299    | ...Simultaneous (e.g., actuated by transmitted signal)                           | 320    | .Via fluid conduit (e.g., fire hose)  |
| 300    | ...Lamp at box (e.g., to call patrolman)   | 321    | .Portable self-contained (e.g., movie usher's signalling flashlight)                          |
| 301    | ..Portable box actuating key (e.g., key must be released by signal from central) | 322    | .Self-cancelling after fixed time   |
| 302    | ..Frangible guard or protector for key   | 323 R  | .Game reporting   |
| 303    | ..Frangible element must be broken to send signal                                | 323 B  | ..Bowling   |
| 304    | ..False alarm combating (e.g., detention devices)                                | 326    | .Plural (e.g., concurrent auxiliary) single indications (e.g., light flashes when bell rings) |
| 305    | ..Local circuit to actuate box   | 327    | ..With sounder signal cut-off   |
| 306    | ..Watchman's local circuit   | 328    | .Audible signals (e.g., bell rings softly first and then loudly)                              |
| 307    | ..Transmitters   | 329    | ..Intermittent  |
| 308    | ..Controlled by door of signal box   | 330    | .In and out indicators (e.g., doorbell button flashes "out" sign)                             |
| 309    | ..With make and break wheel  | 331    | .Periodic or flashing   |
| 309.16 | .Timer control   | 332    | .Signal light systems   |
| 309.2  | ..With nonelectrical indicator or exhibitor                                      | 333    | .With specific power supply (e.g., power substitution)  |
| 309.3  | ..With diversely controlled indicator  | 425.1  | <b>REPEATER IN UNSPECIFIED TYPE COMMUNICATIONS LINE OR CHANNEL (E.G., RELAY STATION)</b>      |
| 309.4  | ..Selectively or sequentially actuated indicators                                | 425.2  | .Power control  |
| 309.5  | ...With independent manual controller  | 407.1  | <b>TACTUAL INDICATION</b>   |
| 309.6  | ..Circuit maker-breaker in series  | 407.2  | .With input means (e.g., keyboard)  |
| 309.7  | ..Reminder device with built-in timer  | 815.4  | <b>VISUAL INDICATION</b>  |
| 309.8  | ..Separate diverse device activated by timer                                     | 815.41 | .False signal prevention (anti-sunlight)  |
| 309.9  | ..Separate diverse device deactivated by timer                                   | 815.42 | .Having light piping  |
| 311.2  | ..Nonselective paging (e.g., public address system)                              | 815.43 | ..With specified colors   |
| 313    | ..Answer back  | 815.44 | .Seven-segment indicator  |
|        |  | 815.45 | .Using light emitting diodes  |
|        |  | 815.46 | .Audio responsive lamp  |
|        |  | 815.47 | .Switchboard or panel type (e.g., bullseye)   |
|        |  | 815.48 | ..Pushbutton  |
|        |  | 815.49 | ..Housing   |
|        |  | 815.5  | ...Including optical means  |
|        |  | 815.51 | ...Including spring   |

|        |  |        |  |
|--------|--|--------|--|
| 815.52 | ..With details of energizing circuit                                 | 815.92 | ...Gravity operated drop annunciator                             |
| 815.53 | ..Lighted alphanumeric or character indicator matrix                 | 384.1  | <b>AUDIBLE INDICATION</b>  |
| 815.54 | ..Having optical means in viewing path                               | 384.2  | ..Ultrasonic pest control  |
| 815.55 | ..Transparent or translucent indicator with means for blocking light | 384.3  | ..Simulation   |
| 815.56 | ..Color  | 384.4  | ..Electronic siren (e.g., wail tone or yelp tone warning device) |
| 815.57 | ..Having optical device  | 384.5  | ..With computer element  |
| 815.58 | ..Step by step positioner  | 384.6  | ..Piezoelectric  |
| 815.59 | ..Having resetting device  | 384.7  | ..Electronic   |
| 815.6  | ..Remote controller  | 384.71 | ..Timing   |
| 815.61 | ..Drum indicator   | 384.72 | ..Plural generators  |
| 815.62 | ..Electromagnetic actuator for indicator matrix                      | 384.73 | ..With sound transducer details                                  |
| 815.63 | ..Binary indicator   | 385.1  | ..Explosive  |
| 815.64 | ..Electromagnetic rotator for indicator wheel                        | 387.1  | ..Weatherproofing  |
| 815.65 | ..Multiple colors  | 388.1  | ..Diaphragm (e.g., horn or buzzer)                               |
| 815.66 | ..By light signal  | 390.1  | ..Rotary actuator  |
| 815.67 | ...Plural  | 390.2  | ...Having spring   |
| 815.68 | ...With movable optical means  | 388.2  | ..Alternating current  |
| 815.69 | ..Diverse indications  | 388.3  | ..With auxiliary flexible membrane                               |
| 815.7  | ..Having percussion type indication (e.g., electric bells, chimes)   | 388.4  | ..With resonance chamber   |
| 815.71 | ...Electromagnetic   | 388.5  | ..Armature support   |
| 815.72 | ..Having pneumatic type indication                                   | 388.6  | ...Having spring   |
| 815.73 | ..With lamp enclosed in transparent housing                          | 388.7  | ..Interrupter  |
| 815.74 | ..Combined   | 388.8  | ...Having spring   |
| 815.75 | ..Light source modifier  | 391.1  | ..Housing or mounting  |
| 815.76 | ...Lens type   | 392.1  | ..Percussion-type sound producer (e.g., signal chimes or bells)  |
| 815.77 | ..Relatively movable light source                                    | 392.2  | ..Rotary actuator  |
| 815.78 | ..Pointer indicator  | 393.1  | ..Plural armatures   |
| 815.79 | ..Annunciator  | 393.2  | ..Battery operated   |
| 815.8  | ...Having electromagnetically releasable latch                       | 393.3  | ..Pushbutton   |
| 815.81 | ..Grouped drop annunciators  | 393.4  | ..Including timer  |
| 815.82 | ..Support  | 392.3  | ..Volume control   |
| 815.83 | ..Movable  | 401.1  | ..Alternating current  |
| 815.84 | ..Semaphore  | 398.1  | ..Nonelectrical driving means (e.g., spring or weight)           |
| 815.85 | ..Self restoring type annunciator                                    | 398.2  | ...With electromagnetic control                                  |
| 815.86 | ..Rotary   | 398.3  | ...Including circuit breaker                                     |
| 815.87 | ...Rotor driven  | 392.4  | ..Tubular sound producer (e.g., signal chimes)                   |
| 815.88 | ...Vane indicator  | 392.5  | ..Resonator (e.g., signal chimes)                                |
| 815.89 | ..Circuit closing type   | 395.1  | ..Suspended (e.g., locomotive bell)                              |
| 815.9  | ..By electromagnetically releasable latch                            | 397.1  | ..Armature support   |
| 815.91 | ...Having restoring means  | 397.2  | ...Having spring   |
|        |  | 397.3  | ..Interrupter  |
|        |  | 397.4  | ...Having spring   |
|        |  | 397.5  | ..Polarized  |
|        |  | 396.1  | ..Housing or mounting  |
|        |  | 404.1  | ..Pneumatic-type sound producer (e.g., whistle or siren)         |

404.2 ..Rotary actuator  
 404.3 ..With valve  
 999 **MISCELLANEOUS**

### FOREIGN ART COLLECTIONS

#### FOR 000 **CLASS-RELATED FOREIGN DOCUMENTS**

Any foreign patents or non-patent literature from subclasses that have been reclassified have been transferred directly to FOR Collections listed below. These Collections contain ONLY foreign patents or non-patent literature. The parenthetical references in the Collection titles refer to the abolished subclasses from which these Collections were derived.

#### **VEHICLE POSITION INDICATION (340/988)**

FOR 400 .Map display (340/995)

#### **LAND VEHICLE ALARM OR INDICATOR (340/425.5)**

FOR 401 .Of burglary or unauthorized use (340/426)

#### **CONDITION RESPONSIVE INDICATING SYSTEM (340/500)**

.With particular coupling link (340/531)

FOR 402 ..Radio (340/539)

.Specific condition (340/540)  
 ..Intrusion detection (340/541)

FOR 100 ...Door or window movement (340/545)

FOR 101 ..Article placement or removal (340/568)

FOR 102 ...Detectable device on protected article (340/572)

FOR 103 ..Human or animal (340/573)  
 ..Condition of electrical apparatus (340/635)

FOR 403 ...Battery (340/636)

FOR 104 ..Position responsive (340/686)

FOR 105 .Specified indicator structure (340/691)

FOR 106 .Specified power supply or housing (340/693)

#### **SELECTIVE (340/825)**

FOR 203 .Channel selection (340/825.03)

FOR 326 ..Plural stage matrix system (e.g., path finding) (340/826)

FOR 327 ...Alternate routing (340/827)

FOR 204 ..Code or pulse responsive (340/825.04)

FOR 107 .Loop (340/825.05)

FOR 206 .Monitoring and control (e.g., supervisory) (340/825.06)

FOR 207 ..Having addressing (340/825.07)

FOR 208 ...Polling or roll call (340/825.08)

FOR 209 ..Quiescent (340/825.09)

FOR 210 ..Scanning (340/825.1)

FOR 211 ...Continuous (340/825.11)

FOR 212 ...Interrupted (340/825.12)

FOR 213 ...Automatic (340/825.13)

FOR 214 ..Synchronization (340/825.14)

FOR 215 ..Having storage or recording (340/825.15)

FOR 216 ..Fault condition (340/825.16)

FOR 217 ..Having indicator (340/825.17)

FOR 218 ..Relay (340/825.18)

FOR 110 .Intelligence comparison (340/825.3)

FOR 111 ..Authorization control (e.g., entry into an area) (340/825.31)

FOR 112 ...With alarm or indication of improper access (340/825.32)

FOR 113 ...Credit (340/825.33)

FOR 114 ..Authentication (e.g., identity) (340/825.34)

FOR 115 ..Commodity (e.g., vending) (340/825.35)

#### **FOR 311 SYSTEM WITH RECEIVER SELECTION (455/31.1)**

FOR 312 .Control of selectively responsive paging arrangement over telephone line (379/FOR 102)

FOR 321 .Receiver scans for address signal (455/32.1)

FOR 381 .Coded sequence (455/38.1)

FOR 382 ..Having actuation (e.g., turn on/off or alarm indication, etcl.) (455/38.2)

FOR 383 ...Power control or battery saving (455/38.3)

FOR 384 ...Visual indication (455/38.4)

FOR 385 ...Tone sequence (455/38.5)

#### **SELECTIVE (340/825)**

.Having indication or alarm (e.g., location indication) (340/825.36)

FOR 244 ..Code responsive (e.g., paging) (340/825.44)

- FOR 245 ...Distress signal alarm (340/825.45)
- FOR 246 ...Vibratory (tactual) alarm (340/825.46)
- FOR 247 ...Group call (340/825.47)
- FOR 248 ...Tone code (340/825.48)
- FOR 108 .Interrogation response (340/825.54)
- FOR 109 ..Printout (e.g., logging) or display (340/825.55)
- FOR 279 .Matrix (340/825.79)
- FOR 280 ..Plural stage (340/825.8)
- FOR 281 ..Electroluminescent elements (340/825.81)
- FOR 282 ...Light-emitting diode (340/825.82)
- FOR 283 ..Programmable (340/825.83)
- FOR 284 ...Having fusible element (340/825.84)
- FOR 285 ..Semiconductor crosspoint (340/825.85)
- FOR 286 ...Integrated circuit (340/825.86)
- FOR 287 ...Logic (340/825.87)
- FOR 288 ...Bistable (340/825.88)
- FOR 289 ...Switching element (340/825.89)
- FOR 290 ...Transistor (340/825.9)
- FOR 291 ....Field effect transistor (340/825.91)
- FOR 292 ....Four or more electrodes (340/825.92)
- FOR 293 ....Plural (340/825.93)
- FOR 294 ...Diode (340/825.94)
- FOR 295 ....Charge storage (340/825.95)
- FOR 296 ....Plural diodes at crosspoint (340/825.96)
- SYSTEMS (340/286.01)**
- FOR 404 .Timer controlled (340/309.15)
- FOR 301 .Paging (340/311.1)
- FOR 405 .Signal over power line (340/310.01)
- FOR 406 ..Modulation technique (340/310.02)
- FOR 407 ..Noise reduction (e.g., filtering) (340/310.03)
- FOR 408 ...Zero crossing (340/310.04)
- FOR 409 ..Impedance matching (e.g., Y-match or delta match) (340/310.05)
- FOR 410 ..Bidirectional (e.g., with transceiver) (340/310.06)
- FOR 411 ..With inductive coupling (e.g., transformer or torrid) (340/310.07)
- FOR 412 ..With coupling plug (340/310.08)
- SELECTIVE (340/825)**
- FOR 413 .Lockout or priority (programmed or variable) (340/825.5)
- FOR 414 ..Designated priority (340/825.51)
- FOR 415 **SELECTIVE (340/825)**
- FOR 416 .Spare channel (340/825.01)
- FOR 417 .Tree or cascade (340/825.02)
- FOR 418 .Communication or control for the handicapped (340/825.19)
- FOR 419 .Synchronizing (340/825.2)
- FOR 420 ..With addressing (340/825.21)
- FOR 421 .Program control (340/825.22)
- FOR 422 ..Machine tool (340/825.23)
- FOR 423 ..Of audio systems (340/825.24)
- FOR 424 .Audio system (e.g., by pulse signal) (340/825.25)
- FOR 425 .Stock quotation (340/825.26)
- FOR 426 ..With information storage (340/825.27)
- FOR 427 .Space allocation (e.g., vehicle seat, hotel reservation) (340/825.28)
- FOR 428 ..Remote terminal (340/825.29)
- FOR 429 .Having indication or alarm (e.g., location indication) (340/825.36)
- FOR 430 ..Additional to other selective control (340/825.37)
- FOR 431 ..Party line (340/825.38)
- FOR 432 ...Selection by means of frequency (340/825.39)
- FOR 433 ...Selector or indicator, per se (340/825.4)
- FOR 434 ...Step-by-step impulse (340/825.41)
- FOR 435 ....Polarity controlled (340/825.42)
- FOR 436 ...Amplitude or polarity controlled (340/825.43)
- FOR 437 ..Location indication (340/825.49)
- FOR 438 .Addressing (340/825.52)
- FOR 439 ..Plural part (e.g., digit) or repetitions (340/825.53)
- FOR 440 .With multidigit encoder (340/825.56)
- FOR 441 .Pulse responsive actuation (340/825.57)
- FOR 442 ..Phase or frequency shift keying (340/825.58)
- FOR 443 ..Polarity (340/825.59)
- FOR 444 ..Pulse pairs (340/825.6)
- FOR 445 ..Having delay line (340/825.61)
- FOR 446 ..Serial (340/825.62)

- FOR 447 ...Pulse width (340/825.63)
- FOR 448 ...Pulse spacing (e.g., pulse repetition rate) (340/825.64)
- FOR 449 ...Counting (340/825.65)
- FOR 450 ....Relay (340/825.66)
- FOR 451 ....Counting chain (340/825.67)
- FOR 452 ...Shift register (340/825.68)
- FOR 453 ...Radio link (340/825.69)
- FOR 454 .Phase responsive actuation (340/825.7)
- FOR 455 .Frequency responsive actuation (340/825.71)
- FOR 456 ..Wireless link (340/825.72)
- FOR 457 ..Plural frequencies (340/825.73)
- FOR 458 ...Simultaneous (340/825.74)
- FOR 459 ...Permutation (340/825.75)
- FOR 460 ...Corresponding to distinct functions (340/825.76)
- FOR 461 .Amplitude responsive actuation (340/825.77)
- FOR 462 ..Divided resistor (340/825.78)
- FOR 463 .Having electron beam device (340/825.97)
- FOR 464 .System having rectifier (340/825.98)
- FOR 465 **REMOTE CONTROL OVER POWER LINE (340/310.11)**
- FOR 466 .Modulation technique (340/310.12)
- FOR 467 .Noise reduction (e.g., filtering) (340/310.13)
- FOR 468 ..Zero crossing (340/310.14)
- FOR 469 .Impedance matching (e.g., Y-match or delta match) (340/310.15)
- FOR 470 .Bi-directional (e.g., with transceiver) (340/310.16)
- FOR 471 .With inductive coupling (e.g., transformer or torroid) (340/310.17)
- FOR 472 .With coupling plug (340/310.18)