

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

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

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

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	LAND VEHICLE ALARMS OR INDICATORS	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	468	..Acceleration or deceleration
			.External signal light system

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	DIGITAL COMPARATOR SYSTEMS	538.11	...Modulation technique
500	CONDITION RESPONSIVE INDICATING SYSTEM	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

539.21	....Signal strength	561	...Disturbance of electric field
539.22	...Having plural distinct sensors (i.e., for surrounding 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 (e.g., anti-theft)
539.29	....Dosimeter	568.2	...Signal-carrying conduit between sensor and article (e.g., cable, power cord, or data link)
539.3	...Including power saving	568.3	....Power cord
539.31	...Including tamper resistant device	568.4	....Specified connector (e.g., phone jack-type plug)
539.32	...Including location of misplaced item	568.5	...Shopping cart or item thereon
540	..Specific condition	568.6	...Sporting equipment (e.g., golfbag, club, cart, or skis)
541	..Intrusion detection	568.7	...Currency, credit card, or container therefor (e.g., wallet or handbag)
542	...Lock	568.8	...Article on pedestal, in display case, or mounted on 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 article (e.g., "tag")
545.2	....Specified sensor	572.2	....Specified relationship between field and detection frequencies (e.g., nth order harmonics)
547	.....Magnetic sensor	572.3	....Deactivatable by means other than mere removal
548	.....Plug or cord tension sensor	572.4	....Specified processing arrangement for detected signal
549	.....Rotatable sensor	572.5	....Having tuned resonant circuit
545.3	.....Sensing of electromagnetic energy (e.g., light, infrared, or microwave)	572.6	....Having "soft" magnetic element (e.g., Permalloy)
545.4	.....Sensing of electrical parameter (e.g., piezoelectricity or capacitance)	572.7	....Specified antenna structure
545.5	.....Inertia-type sensor (e.g., mercury or pendulum switch)	572.8	....Specified device housing or attachment means
545.6	....Door, cover, or lid for self- contained article (e.g., refrigerator, mailbox, drawer, cabinet, or box)	572.9	.....Having means locking device to article
545.7	....Specified door or window portion (e.g., doorknob)	573.1	..Human or animal
545.8	....Specified door or window attachment (e.g., shade or 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 hunting, fishing, or repelling)
552	...Disturbance of electromagnetic waves		
553	....Standing waves		
554	....Doppler effect		
555	....Light		
556	.....Beam		
557	.....Laser		

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	825	SELECTIVE
665	..Force or stress	825.01	.Spare channel
666	...Weight	825.02	.Tree or cascade
667	....On seat	2.1	.Path selection
668	...Tension	2.2	..Channel selecting matrix
669	..Acceleration	2.21	...Plural stages
670	..Velocity	2.22	....Clos type
671	...Angular	2.23	....Alternate routing
672	....Direction of shaft rotation	2.24	....Having master control element
673	..Article transport	2.25	...Folded
674	...Discrete articles	2.26	...Having master control element
675	...Web, film, or strip	2.27	...Plural matrices
676	....Conveyor belt	2.28	...Crosspoint switch detail (i.e., specific crosspoint)
677	...Strand	2.29	....Semiconductor
678	..Of geometrical gauge	2.31	....Gas discharge
679	..Machine condition	2.4	..Code or pulse responsive
680	..Machine tool	2.5	..Wiper
681	...Synchronization	2.6	..Plural stages
682	...Bearing	2.7	..Condition of data channel
683	...Vibration	2.71	...Hunting
684	...Agricultural	2.8	..Data channel selector line
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
- 3.4 ..Quiescent
- 3.41 ...Collision avoidance
- 3.42 ..Control to avoid fault
- 3.43 ..Fault condition detection
- 3.44 ...Control to correct fault
- 3.5 ..Including addressing
- 3.51 ...Polling or roll call
- 3.52 ...Group address
- 3.53 ...Source address
- 3.54 ...Destination address
- 3.55Pulse counting
- 3.6 ..Scanning
- 3.61 ...Continuous
- 3.62 ...Interrupted
- 3.63Automatic
- 3.7 ..Including indicator
- 3.71 ...Having manual control input
- 3.8 ..Electromechanical relay
- 3.9 ..Control then monitoring
- 825.19 .Communication or control for the handicapped
- 825.2 ..Synchronizing
- 825.21 ..With addressing
- 825.22 .Program control
- 825.23 ..Machine tool
- 825.24 ..Of audio system
- 825.25 .Audio system (e.g., by pulse signal)
- 825.26 .Stock quotation
- 825.27 ..With information storage
- 825.28 .Space allocation (e.g., vehicle seat, hotel reservation)
- 825.29 ..Remote terminal
- 5.1 ..Intelligence comparison for controlling
- 5.2 ..Authorization control (e.g., entry into an area)
- 5.21 ...Varying authorization
- 5.22Code programming
- 5.23Programming from coded record to controller
- 5.24Using additional record or carrier code
- 5.25Programming of coded record
- 5.26Code rotating or scrambling
- 5.27Rule based input
- 5.28 ...Timed access blocking
- 5.3 ..Having indication of improper access
- 5.31Lockout or disable
- 5.32Visual indication
- 5.33Including link to remote indicator
- 5.4 ...Credit
- 5.41Banking or finance
- 5.42Debiting (e.g., rental)
- 5.5 ...Input from central location for plural controlled devices
- 5.51 ...Manual code input
- 5.52Biometrics
- 5.53Image (e.g., fingerprint, face)
- 5.54Password
- 5.55 ...Rotary input
- 5.6 ...Coded record input (e.g., IC card or key)
- 5.61 ...Wireless transceiver
- 5.62Including manual switching means
- 5.63Including timing means (e.g., clock)
- 5.64 ...Wireless transmitter
- 5.65 ...Electronic coded record
- 5.66 ...Magnetic coded record
- 5.67 ...Mechanical coded record
- 5.7 ...Access barrier
- 5.71 ...Garage door
- 5.72 ...Vehicle door
- 5.73 ...Lockbox
- 5.74 ...Access to electrical information
- 5.8 ..Authentication (e.g., identity)
- 5.81 ...Personal identification
- 5.82Biometrics
- 5.83Image (Fingerprint, Face)
- 5.84Voice
- 5.85 ...Password
- 5.86 ...Document authentication
- 5.9 ..Commodity (e.g., vending)
- 5.91 ...Including merchandise information display system (e.g., store price display)
- 5.92 ...Item inventorying
- 825.36 .Having indication or alarm (e.g., location indication)
- 825.37 ..Additional to other selective control
- 825.38 ..Party line
- 825.39 ...Selection by means of frequency
- 825.4 ...Selector or indicator, per se
- 825.41 ...Step-by-step impulse
- 825.42Polarity controlled
- 825.43 ...Amplitude or polarity controlled
- 7.1 ..Paging to control diverse device

7.2	..Code responsive (i.e., paging)	7.6	....Vibratory (i.e., tactual) alarm
7.21	...Two-way paging		
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	825.49	..Location indication
7.26	.....Simulcast	825.52	.Addressing
7.27	.....Zoned	825.53	..Plural part (e.g., digit) or repetitions
7.28	...Paging terminal (i.e., element prior to the transmitter)	10.1	.Interrogation response
7.29	....Terminal connected to other network (e.g., Internet)	10.2	..Contention avoidance
7.3	....Queuing	10.3	..Interrogation signal detail
7.31	....Message input	10.31	...Individual call
7.32	...Power control or battery saving	10.32	...Group call
7.33	....Based on received signal	10.33	...Wake up (all call)
7.34	.....Frame based timing	10.34	...Power up
7.35	.....Address based	10.4	..Response signal detail
7.36	.....Received signal includes power command	10.41	...Combination response
7.37	....Control based upon available power	10.42	...Identification only
7.38	....Time based	10.5	..Additional control
7.39	...Programming the receiver	10.51	...Programming (e.g., read/write)
7.4	....Via local device	10.52	....ID code
7.41	....Over the air	10.6	..Printout or display
7.42	...Frequency scanning for address	825.56	..With multidigit encoder
7.43	...Particular message and address format (e.g., POCSAG, FLEX, etc.)	825.57	.Pulse responsive actuation
7.44	....Having error detection or correction	825.58	..Phase or frequency shift keying
7.45	...Addressing format	825.59	..Polarity
7.46	....Group call	825.6	..Pulse pairs
7.47	.....Source address	825.61	..Having delay line
7.48	.....News information provider (e.g., sports, weather, etc.)	825.62	..Serial
7.49	....Tone code (i.e., frequency code)	825.63	...Pulse width
7.5	...Distress signal	825.64	...Pulse spacing (e.g., pulse repetition rate)
7.51	...Message presentation	825.65	...Counting
7.52	....Storing or retrieving message (e.g., received message database handling)	825.66	....Relay
7.53	....Canned message (audible or visual)	825.67	....Counting chain
7.54	....Via externally coupled device	825.68	...Shift register
7.55	....Display	825.69	...Radio link
7.56	.....Including graphics	825.7	.Phase responsive actuation
7.57	....Audible	825.71	.Frequency responsive actuation
7.58	...Alert	825.72	..Wireless link
7.59	....Priority alert	825.73	..Plural frequencies
		825.74	...Simultaneous
		825.75	...Permutation
		825.76	...Corresponding to distinct functions
		825.77	.Amplitude responsive actuation
		825.78	..Divided resistor
		14.1	.Decoder matrix
		14.2	..Plural stage
		14.3	..Programmable
		14.31	...Having fusible element
		14.4	..Logic crosspoint
		14.5	..Bistable crosspoint

14.6	..Semiconductor crosspoint	293	..Variable signal (e.g., police and fire, first and third alarm)
14.61	...Integrated circuit		
14.62	...Transistor		
14.63	....Field effect transistor	294	...Dial selector for variable signal
14.64	....Four or more electrode type		
14.65	....Plural transistors in element	295	..Noninterfering (prevents break-in by another box during transmission)
14.66	...Semiconductor diode		
14.67	....Charge storage	296	...Key obstruction type
14.68	....Plural diodes at crosspoint	297	..With signal at box (e.g., preliminary signal to combat false alarms)
14.69	...Switching element		
825.97	.Having electron beam device		
825.98	.System having rectifier		
310.11	REMOTE CONTROL OVER POWER LINE	298	...Answer back signal acknowledges transmitted signal
310.12	.Modulation technique		
310.13	.Noise reduction (e.g., filtering)	299	...Simultaneous (e.g., actuated by transmitted signal)
310.14	..Zero crossing		
310.15	.Impedance matching (e.g., Y-match or delta match)	300	...Lamp at box (e.g., to call patrolman)
310.16	.Bi-directional (e.g., with transceiver)	301	..Portable box actuating key (e.g., key must be released by signal from central)
310.17	.With inductive coupling (e.g., transformer or torroid)	302	...Frangible guard or protector for key
310.18	.With coupling plug		
286.01	SYSTEMS	303	..Frangible element must be broken to send signal
286.02	.Network signaling		
286.03	..Speaking tube including circuit	304	..False alarm combating (e.g., detention devices)
286.04	.Manual alarm telegraph; e.g., other than signal box type	305	..Local circuit to actuate box
286.05	..Fire	306	...Watchman's local circuit
286.06	.Call station	307	..Transmitters
286.07	..Hospital	308	...Controlled by door of signal box
286.08	..Hotel		
286.09	..Restaurant	309	...With make and break wheel
286.11	.Annunciator	309.16	.Timer control
286.12	..Drop annunciator	309.2	..With nonelectrical indicator or exhibitor
286.13	.Mimic	309.3	..With diversely controlled indicator
286.14	..Mapping	309.4	..Selectively or sequentially actuated indicators
287	.Signal box type (e.g., to call messenger, plural fire alarm boxes)	309.5	...With independent manual controller
288	..Combined (e.g., alarm circuit over power line)	309.6	..Circuit maker-breaker in series
289	...With fire extinguisher (e.g., CO2)	309.7	..Reminder device with built-in timer
290	...Engine house apparatus controlling (e.g., releases horses, starts motor)	309.8	..Separate diverse device activated by timer
291	..Repeaters (e.g., from central to plural fire houses or to siren)	309.9	..Separate diverse device deactivated by timer
292	..Circuit maintenance (e.g., fault alarm, faulty circuit substitution)	311.2	.Nonselective paging (e.g., public address system)
		313	.Answer back

314	..Noncorrespondence alarm (e.g., if acknowledgement is incorrect)	815.52	..With details of energizing circuit
315	.Selsyn type	815.53	.Lighted alphanumeric or character indicator matrix
316	.Rebalancing at receiver	815.54	..Having optical means in viewing path
317	..Automatic rebalancing		
318	.Synchronous distributor at transmitter and receiver	815.55	.Transparent or translucent indicator with means for blocking light
319	.Plural electromagnets or plural motors receiver	815.56	..Color
320	.Via fluid conduit (e.g., fire hose)	815.57	..Having optical device
321	.Portable self-contained (e.g., movie usher's signalling flashlight)	815.58	.Step by step positioner
322	.Self-cancelling after fixed time	815.59	..Having resetting device
323 R	.Game reporting	815.6	..Remote controller
323 B	..Bowling	815.61	..Drum indicator
326	.Plural (e.g., concurrent auxiliary) single indications (e.g., light flashes when bell rings)	815.62	.Electromagnetic actuator for indicator matrix
327	..With sounder signal cut-off	815.63	.Binary indicator
328	.Audible signals (e.g., bell rings softly first and then loudly)	815.64	.Electromagnetic rotator for indicator wheel
329	..Intermittent	815.65	.Multiple colors
330	.In and out indicators (e.g., doorbell button flashes "out" sign)	815.66	..By light signal
331	.Periodic or flashing	815.67	...Plural
332	.Signal light systems	815.68	...With movable optical means
333	.With specific power supply (e.g., power substitution)	815.69	.Diverse indications
425.1	REPEATER IN UNSPECIFIED TYPE COMMUNICATIONS LINE OR CHANNEL (E.G., RELAY STATION)	815.7	..Having percussion type indication (e.g., electric bells, chimes)
425.2	.Power control	815.71	...Electromagnetic
407.1	TACTUAL INDICATION	815.72	..Having pneumatic type indication
407.2	.With input means (e.g., keyboard)	815.73	.With lamp enclosed in transparent housing
815.4	VISUAL INDICATION	815.74	..Combined
815.41	.False signal prevention (anti-sunlight)	815.75	..Light source modifier
815.42	.Having light piping	815.76	...Lens type
815.43	..With specified colors	815.77	..Relatively movable light source
815.44	.Seven-segment indicator	815.78	.Pointer indicator
815.45	.Using light emitting diodes	815.79	..Annunciator
815.46	.Audio responsive lamp	815.8	...Having electromagnetically releasable latch
815.47	.Switchboard or panel type (e.g., bullseye)	815.81	.Grouped drop annunciators
815.48	..Pushbutton	815.82	..Support
815.49	..Housing	815.83	.Movable
815.5	...Including optical means	815.84	..Semaphore
815.51	...Including spring	815.85	..Self restoring type annunciator
		815.86	..Rotary
		815.87	...Rotor driven
		815.88	...Vane indicator
		815.89	..Circuit closing type
		815.9	..By electromagnetically releasable latch
		815.91	...Having restoring means

815.92 ...Gravity operated drop annunciator

384.1 **AUDIBLE INDICATION**

384.2 .Ultrasonic pest control

384.3 .Simulation

384.4 .Electronic siren (e.g., wail tone or yelp tone warning device)

384.5 .With computer element

384.6 .Piezoelectric

384.7 .Electronic

384.71 ..Timing

384.72 ..Plural generators

384.73 ..With sound transducer details

385.1 .Explosive

387.1 .Weatherproofing

388.1 .Diaphragm (e.g., horn or buzzer)

390.1 ..Rotary actuator

390.2 ..Having spring

388.2 ..Alternating current

388.3 ..With auxiliary flexible membrane

388.4 ..With resonance chamber

388.5 ..Armature support

388.6 ...Having spring

388.7 ..Interrupter

388.8 ...Having spring

391.1 ..Housing or mounting

392.1 .Percussion-type sound producer (e.g., signal chimes or bells)

392.2 ..Rotary actuator

393.1 ..Plural armatures

393.2 ..Battery operated

393.3 ..Pushbutton

393.4 ..Including timer

392.3 ..Volume control

401.1 ..Alternating current

398.1 ..Nonelectrical driving means (e.g., spring or weight)

398.2 ...With electromagnetic control

398.3Including circuit breaker

392.4 ..Tubular sound producer (e.g., signal chimes)

392.5 ..Resonator (e.g., signal chimes)

395.1 ..Suspended (e.g., locomotive bell)

397.1 ..Armature support

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)

CONDITION RESPONSIVE INDICATING SYSTEM (340/500)

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

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

CONDITION RESPONSIVE INDICATING SYSTEM (340/500)

.Specific condition (340/540)

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

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

CONDITION RESPONSIVE INDICATING SYSTEM (340/500)

.Specific condition (340/540)

FOR 103 ..Human or animal (340/573)

CONDITION RESPONSIVE INDICATING SYSTEM (340/500)

.Specific condition (340/540)

- ..Condition of electrical apparatus (340/635)
- FOR 403 ..Battery (340/636)
- FOR 104 ..Position responsive (340/686)
- CONDITION RESPONSIVE INDICATING SYSTEM (340/500)**
- FOR 105 ..Specified indicator structure (340/691)
- CONDITION RESPONSIVE INDICATING SYSTEM (340/500)**
- 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 213Automatic (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, etc1.) (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 291Field effect transistor (340/825.91)
- FOR 292Four or more electrodes (340/825.92)
- FOR 293Plural (340/825.93)
- FOR 294 ...Diode (340/825.94)
- FOR 295Charge storage (340/825.95)
- FOR 296Plural 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)
- FOR 413 .Lockout or priority (programmed
or variable) (340/825.5)
- FOR 414 ..Designated priority (340/
825.51)

