

U. S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

CLASSIFICATION ORDER 1848

AUGUST 2, 2005

Project No. E-6737

The following classification changes will be effected by this order:

	<u>Class</u>	<u>Subclass</u>	<u>Art Unit</u>	<u>Ex'r Search Room No.</u>
Abolished:	340	310.01-310.08	2632	ELEL0000
Established:	340	310.11-310.18	2632	ELEL0000
	340	538.11-538.17	2632	ELEL0000

The following classes are also impacted by this order.

Classes: 315, 333, 368, 370, 379, 455

This order includes the following:

- A. CLASSIFICATION MANUAL CHANGES;
- B. LISTING OF PRINCIPAL SOURCE OF ESTABLISHED AND DISPOSITION OF ABOLISHED SUBCLASSES;
- C. CHANGES TO THE U.S. - I.P.C. CONCORDANCE;
- D. DEFINITION CHANGES AND NEW OR ADDITIONAL DEFINITIONS

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Project No. E-6737

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C. CHANGES TO THE U.S. - I.P.C. CONCORDANCE

U.S.

I.P.C.

<u>Class</u>	<u>Subclass</u>	<u>Subclass</u>	<u>Notation</u>
340	310.11-310.18	G 05 B	11/01
340	533-538.17	G 08 B	1/08
340	533-538.17	H 04 Q	1/30
340	533-518.17	H 04 M	11/04

850	UNDERWATER	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	WELLBORE TELEMETERING OR CONTROL (E.G., SUBSURFACE TOOL GUIDANCE, DATA TRANSFER, ETC.)	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	CONTINUOUSLY VARIABLE INDICATING (E.G., TELEMETERING)
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

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	457.4	...Of service interval expiration
426.31	...Steering wheel	458	..Lamp or lamp circuit condition
426.32	...Brake	459	..Plural conditions
426.33	...Wheel/tire	460	...With voice warning
426.34	...Accessory (e.g., speaker, radio face plate, etc.)	461	...With particular display means
426.35	..Including programmable key	462	...Digital
426.36	..Including keyless entry	463	.External alarm or indicator of movement
431	.For trailer	464	..Plural indications (e.g., go, slow, stop)
432	.For bicycle	465	..Turning or steering
433	.For school bus	466	..Speed
434	.For taxi	467	..Acceleration or deceleration
		468	.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	7.61	....Visual
7.22	....Acknowledgment of message receipt	7.62	....Audible
7.23	.....Including reply to query	7.63	...Housing detail
7.24	...Transmitting configuration	825.49	..Location indication
7.25	....Multiple transmitters	825.5	.Lockout or priority (programmed or variable)
7.26	.....Simulcast	825.51	..Designated priority
7.27	.....Zoned	825.52	.Addressing
7.28	...Paging terminal (i.e., element prior to the transmitter)	825.53	..Plural part (e.g., digit) or repetitions
7.29	....Terminal connected to other network (e.g., Internet)	10.1	.Interrogation response
7.3	....Queuing	10.2	..Contention avoidance
7.31	....Message input	10.3	..Interrogation signal detail
7.32	...Power control or battery saving	10.31	...Individual call
7.33	....Based on received signal	10.32	...Group call
7.34	.....Frame based timing	10.33	...Wake up (all call)
7.35	.....Address based	10.34	...Power up
7.36	.....Received signal includes power command	10.4	..Response signal detail
7.37	....Control based upon available power	10.41	...Combination response
7.38	....Time based	10.42	...Identification only
7.39	...Programming the receiver	10.5	..Additional control
7.4	....Via local device	10.51	...Programming (e.g., read/write)
7.41	....Over the air	10.52	....ID code
7.42	...Frequency scanning for address	10.6	..Printout or display
7.43	...Particular message and address format (e.g., POCSAG, FLEX, etc.)	825.56	.With multidigit encoder
7.44	....Having error detection or correction	825.57	.Pulse responsive actuation
7.45	...Addressing format	825.58	..Phase or frequency shift keying
7.46	....Group call	825.59	..Polarity
7.47	.....Source address	825.6	..Pulse pairs
7.48	.....News information provider (e.g., sports, weather, etc.)	825.61	..Having delay line
7.49	....Tone code (i.e., frequency code)	825.62	..Serial
7.5	...Distress signal	825.63	...Pulse width
7.51	...Message presentation	825.64	...Pulse spacing (e.g., pulse repetition rate)
7.52	....Storing or retrieving message (e.g., received message database handling)	825.65	...Counting
7.53	....Canned message (audible or visual)	825.66	....Relay
7.54	....Via externally coupled device	825.67	....Counting chain
7.55	....Display	825.68	...Shift register
7.56	.....Including graphics	825.69	...Radio link
7.57	....Audible	825.7	.Phase responsive actuation
7.58	...Alert	825.71	.Frequency responsive actuation
7.59	....Priority alert	825.72	..Wireless link
		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	292	..Circuit maintenance (e.g., fault alarm, faulty circuit substitution)
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	294	...Dial selector for variable signal
14.63	....Field effect transistor	295	..Noninterfering (prevents break-in by another box during transmission)
14.64	....Four or more electrode type	296	...Key obstruction type
14.65	....Plural transistors in element	297	..With signal at box (e.g., preliminary signal to combat false alarms)
14.66	...Semiconductor diode		
14.67	....Charge storage	298	...Answer back signal acknowledges transmitted signal
14.68	....Plural diodes at crosspoint	299	...Simultaneous (e.g., actuated by transmitted signal)
14.69	...Switching element	300	...Lamp at box (e.g., to call patrolman)
825.97	.Having electron beam device	301	..Portable box actuating key (e.g., key must be released by signal from central)
825.98	.System having rectifier	302	...Frangible guard or protector for key
*310.11	REMOTE CONTROL OVER POWER LINE	303	..Frangible element must be broken to send signal
*310.12	.Modulation technique	304	..False alarm combating (e.g., detention devices)
*310.13	.Noise reduction (e.g., filtering)	305	..Local circuit to actuate box
*310.14	..Zero crossing	306	...Watchman's local circuit
*310.15	.Impedance matching (e.g., Y-match or delta match)	307	..Transmitters
*310.16	.Bi-directional (e.g., with transceiver)	308	...Controlled by door of signal box
*310.17	.With inductive coupling (e.g., transformer or torroid)	309	...With make and break wheel
*310.18	.With coupling plug	309.16	.Timer control
286.01	SYSTEMS	309.2	..With nonelectrical indicator or exhibitor
286.02	.Network signaling	309.3	..With diversely controlled indicator
286.03	..Speaking tube including circuit	309.4	..Selectively or sequentially actuated indicators
286.04	.Manual alarm telegraph; e.g., other than signal box type	309.5	...With independent manual controller
286.05	..Fire	309.6	..Circuit maker-breaker in series
286.06	.Call station	309.7	..Reminder device with built-in timer
286.07	..Hospital	309.8	..Separate diverse device activated by timer
286.08	..Hotel	309.9	..Separate diverse device deactivated by timer
286.09	..Restaurant	311.2	.Nonselective paging (e.g., public address system)
286.11	.Annunciator		
286.12	..Drop annunciator		
286.13	.Mimic		
286.14	..Mapping		
287	.Signal box type (e.g., to call messenger, plural fire alarm boxes)		
288	..Combined (e.g., alarm circuit over power line)		
289	...With fire extinguisher (e.g., CO2)		
290	...Engine house apparatus controlling (e.g., releases horses, starts motor)		
291	..Repeaters (e.g., from central to plural fire houses or to siren)		

313	.Answer back	815.51	...Including spring
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	815.55	.Transparent or translucent indicator with means for blocking light
318	.Synchronous distributor at transmitter and receiver	815.56	..Color
319	.Plural electromagnets or plural motors receiver	815.57	..Having optical device
320	.Via fluid conduit (e.g., fire hose)	815.58	.Step by step positioner
321	.Portable self-contained (e.g., movie usher's signalling flashlight)	815.59	..Having resetting device
322	.Self-cancelling after fixed time	815.6	..Remote controller
323 R	.Game reporting	815.61	..Drum indicator
323 B	..Bowling	815.62	.Electromagnetic actuator for indicator matrix
326	.Plural (e.g., concurrent auxiliary) single indications (e.g., light flashes when bell rings)	815.63	.Binary indicator
327	..With sounder signal cut-off	815.64	.Electromagnetic rotator for indicator wheel
328	.Audible signals (e.g., bell rings softly first and then loudly)	815.65	.Multiple colors
329	..Intermittent	815.66	..By light signal
330	.In and out indicators (e.g., doorbell button flashes "out" sign)	815.67	...Plural
331	.Periodic or flashing	815.68	...With movable optical means
332	.Signal light systems	815.69	.Diverse indications
333	.With specific power supply (e.g., power substitution)	815.7	..Having percussion type indication (e.g., electric bells, chimes)
425.1	REPEATER IN UNSPECIFIED TYPE COMMUNICATIONS LINE OR CHANNEL (E.G., RELAY STATION)	815.71	...Electromagnetic
425.2	.Power control	815.72	..Having pneumatic type indication
407.1	TACTUAL INDICATION	815.73	.With lamp enclosed in transparent housing
407.2	.With input means (e.g., keyboard)	815.74	..Combined
815.4	VISUAL INDICATION	815.75	..Light source modifier
815.41	.False signal prevention (anti-sunlight)	815.76	...Lens type
815.42	.Having light piping	815.77	..Relatively movable light source
815.43	..With specified colors	815.78	.Pointer indicator
815.44	.Seven-segment indicator	815.79	..Annunciator
815.45	.Using light emitting diodes	815.8	...Having electromagnetically releasable latch
815.46	.Audio responsive lamp	815.81	.Grouped drop annunciators
815.47	.Switchboard or panel type (e.g., bullseye)	815.82	..Support
815.48	..Pushbutton	815.83	.Movable
815.49	..Housing	815.84	..Semaphore
815.5	...Including optical means	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 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., indentity) (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 torroid) (340/
310.07)
- *FOR 412..With coupling plug (340/310.08)

SOURCE CLASSIFICATION(S) OF PATENTS
 IN NEWLY ESTABLISHED SUBCLASSES REPORT
 PROJECT: E6737

Page: 1

New Classification	Number Of ORs	Source Classification	Number Of ORs
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174/108	1	340/310.01	279
178/2 R	1	340/310.03	40
246/8	1	340/310.07	46
307/1	1	340/310.02	104
	2	340/310.05	37
307/104	1	340/310.08	22
	10	340/310.07	46
307/106	2	340/310.01	279
307/11	1	340/310.06	42
307/12	1	340/310.01	279
307/13	1	340/310.07	46
307/140	1	340/310.01	279
	1	340/310.02	104
	1	340/310.06	42
307/141	1	340/310.05	37
307/147	1	340/310.01	279
307/148	1	340/310.03	40
307/149	1	340/310.06	42
307/17	1	340/310.04	11
307/2	1	340/310.02	104
	3	340/310.01	279
307/3	2	340/310.01	279
	3	340/310.03	40
	3	340/310.06	42
	8	340/310.02	104
	8	340/310.05	37
	11	340/310.07	46
307/31	1	340/310.02	104
	1	340/310.05	37
307/40	1	340/310.06	42
307/53	1	340/310.01	279
307/80	1	340/310.01	279
318/696	1	340/310.01	279
323/234	1	340/310.01	279
323/273	1	340/310.01	279
324/520	1	340/310.01	279
324/527	1	340/310.01	279
33/363 K	1	340/310.05	37
332/144	1	340/310.02	104
333/24 C	1	340/310.07	46
333/32	1	340/310.05	37
340/10.1	1	340/310.03	40
	2	340/310.01	279
340/10.2	1	340/310.02	104

SOURCE CLASSIFICATION(S) OF PATENTS
 IN NEWLY ESTABLISHED SUBCLASSES REPORT
 PROJECT: E6737

Page: 2

New Classification	Number Of ORs	Source Classification	Number Of ORs
340/10.6	1	340/310.08	22
340/288	2	340/310.08	22
	4	340/310.01	279
340/3.1	1	340/310.03	40
340/3.44	1	340/310.02	104
340/309.16	1	340/310.01	279
340/310.11	1	340/310.07	46
	58	340/310.01	279
340/310.12	5	340/310.01	279
	18	340/310.02	104
340/310.13	1	340/310.01	279
	4	340/310.03	40
340/310.14	1	340/310.01	279
340/310.15	5	340/310.05	37
340/310.16	2	340/310.01	279
	10	340/310.06	42
340/310.17	1	340/310.01	279
	1	340/310.07	46
340/310.18	8	340/310.08	22
340/425.5	1	340/310.01	279
340/5.7	1	340/310.01	279
340/5.72	1	340/310.01	279
340/508	1	340/310.01	279
340/538	12	340/310.01	279
340/538.11	1	340/310.03	40
	13	340/310.01	279
	16	340/310.02	104
340/538.12	2	340/310.01	279
	5	340/310.03	40
340/538.13	1	340/310.04	11
340/538.14	2	340/310.05	37
340/538.15	1	340/310.05	37
	1	340/310.06	42
	4	340/310.01	279
340/538.16	1	340/310.02	104
	1	340/310.07	46
	1	340/310.08	22
	3	340/310.01	279
340/538.17	6	340/310.08	22
340/653	1	340/310.01	279
340/825.5	1	340/310.01	279
340/853.2	1	340/310.07	46
340/854.6	1	340/310.01	279
340/854.9	2	340/310.01	279

SOURCE CLASSIFICATION(S) OF PATENTS
 IN NEWLY ESTABLISHED SUBCLASSES REPORT
 PROJECT: E6737

Page: 3

New Classification	Number Of ORs	Source Classification	Number Of ORs
-----	-----	-----	-----
340/855.4	1	340/310.02	104
340/855.9	1	340/310.02	104
340/870.01	1	340/310.01	279
340/870.02	1	340/310.03	40
	2	340/310.06	42
	3	340/310.02	104
	4	340/310.01	279
340/870.03	1	340/310.01	279
	1	340/310.02	104
	1	340/310.07	46
340/870.07	1	340/310.07	46
	1	340/310.08	22
340/870.16	1	340/310.01	279
340/870.18	1	340/310.02	104
340/870.19	1	340/310.03	40
340/907	1	340/310.05	37
340/983	1	340/310.01	279
341/22	1	340/310.01	279
345/204	2	340/310.01	279
345/648	1	340/310.01	279
348/135	1	340/310.01	279
348/14.04	1	340/310.01	279
361/114	1	340/310.01	279
368/11	1	340/310.01	279
369/47.1	1	340/310.01	279
370/200	1	340/310.01	279
370/201	1	340/310.04	11
370/203	1	340/310.02	104
	2	340/310.01	279
370/206	1	340/310.01	279
370/212	1	340/310.01	279
370/214	1	340/310.06	42
370/276	1	340/310.01	279
	3	340/310.06	42
370/282	1	340/310.01	279
370/290	1	340/310.01	279
	1	340/310.03	40
370/294	1	340/310.02	104
370/296	1	340/310.06	42
370/389	1	340/310.06	42
370/400	1	340/310.01	279
370/445	1	340/310.01	279
370/447	1	340/310.06	42
370/458	1	340/310.01	279

SOURCE CLASSIFICATION(S) OF PATENTS
 IN NEWLY ESTABLISHED SUBCLASSES REPORT
 PROJECT: E6737

Page: 4

New Classification -----	Number Of ORs -----	Source Classification -----	Number Of ORs -----
370/464	1	340/310.04	11
	1	340/310.06	42
370/465	1	340/310.01	279
	1	340/310.02	104
	1	340/310.06	42
370/471	1	340/310.06	42
370/475	1	340/310.01	279
	1	340/310.06	42
370/479	1	340/310.02	104
	1	340/310.06	42
370/480	1	340/310.01	279
370/482	3	340/310.01	279
	3	340/310.02	104
370/486	1	340/310.02	104
	1	340/310.03	40
	1	340/310.05	37
	9	340/310.01	279
370/493	3	340/310.02	104
370/496	1	340/310.03	40
	2	340/310.01	279
370/498	1	340/310.04	11
370/501	1	340/310.04	11
370/503	1	340/310.02	104
370/531	1	340/310.01	279
370/535	1	340/310.01	279
375/130	1	340/310.06	42
	4	340/310.01	279
375/133	2	340/310.02	104
375/145	1	340/310.02	104
375/211	1	340/310.01	279
	1	340/310.06	42
375/219	1	340/310.01	279
	2	340/310.06	42
375/220	1	340/310.01	279
375/222	1	340/310.01	279
	1	340/310.02	104
	1	340/310.06	42
	1	340/310.07	46
375/232	1	340/310.01	279
375/238	1	340/310.01	279
	1	340/310.04	11
	1	340/310.07	46
375/239	1	340/310.02	104
375/257	1	340/310.04	11

SOURCE CLASSIFICATION(S) OF PATENTS
 IN NEWLY ESTABLISHED SUBCLASSES REPORT
 PROJECT: E6737

New Classification -----	Number Of ORs	Source Classification -----	Number Of ORs
375/257	1	340/310.05	37
	1	340/310.06	42
	2	340/310.03	40
	2	340/310.08	22
	5	340/310.01	279
375/258	1	340/310.06	42
	2	340/310.02	104
	2	340/310.03	40
	2	340/310.05	37
	4	340/310.07	46
375/259	19	340/310.01	279
	1	340/310.03	40
	1	340/310.05	37
	2	340/310.07	46
	3	340/310.04	11
375/260	8	340/310.02	104
	11	340/310.01	279
	1	340/310.03	40
	2	340/310.02	104
	5	340/310.01	279
375/261	1	340/310.02	104
375/272	1	340/310.02	104
375/273	1	340/310.01	279
375/285	2	340/310.03	40
375/296	1	340/310.02	104
375/297	1	340/310.05	37
375/306	1	340/310.02	104
375/308	1	340/310.02	104
375/329	1	340/310.02	104
375/334	1	340/310.02	104
375/340	1	340/310.03	40
375/342	1	340/310.02	104
375/344	1	340/310.06	42
	2	340/310.02	104
375/347	1	340/310.02	104
375/351	1	340/310.02	104
375/355	1	340/310.03	40
375/356	1	340/310.01	279
	1	340/310.02	104
379/171	1	340/310.01	279
379/35	1	340/310.03	40
379/413	1	340/310.01	279
381/79	1	340/310.01	279
398/106	1	340/310.01	279

SOURCE CLASSIFICATION(S) OF PATENTS
 IN NEWLY ESTABLISHED SUBCLASSES REPORT
 PROJECT: E6737

Page: 6

New Classification	Number Of ORs	Source Classification	Number Of ORs
398/115	1	340/310.01	279
398/127	1	340/310.01	279
439/207	1	340/310.01	279
439/622	1	340/310.01	279
455/130	1	340/310.03	40
455/23	1	340/310.02	104
455/292	1	340/310.05	37
455/3.01	4	340/310.01	279
455/3.02	1	340/310.03	40
455/334	1	340/310.01	279
455/400	1	340/310.03	40
455/402	2	340/310.02	104
	2	340/310.06	42
	3	340/310.03	40
	5	340/310.05	37
	8	340/310.07	46
	20	340/310.01	279
455/41.1	2	340/310.01	279
455/41.2	1	340/310.01	279
455/522	2	340/310.01	279
455/59	1	340/310.05	37
455/60	1	340/310.05	37
455/62	1	340/310.01	279
700/17	1	340/310.01	279
700/295	1	340/310.02	104
714/735	1	340/310.01	279
725/103	1	340/310.01	279
725/130	1	340/310.01	279
725/78	1	340/310.03	40
725/79	1	340/310.01	279
	1	340/310.02	104

DISPOSITION CLASSIFICATION(S) OF PATENTS
 FROM ABOLISHED SUBCLASSES REPORT
 PROJECT: E6737

Source Classification	Number Of ORs	New Classification	Number Of ORs
340/310.01	279	174/108	1
		307/2	3
		307/3	2
		307/12	1
		307/53	1
		307/80	1
		307/106	2
		307/140	1
		307/147	1
		318/696	1
		323/234	1
		323/273	1
		324/520	1
		324/527	1
		340/288	4
		340/5.7	1
		340/508	1
		340/538	12
		340/653	1
		340/983	1
		340/10.1	2
		340/5.72	1
		340/425.5	1
		340/825.5	1
		340/854.6	1
		340/854.9	2
		340/309.16	1
		340/310.11	58
		340/310.12	5
		340/310.13	1
		340/310.14	1
		340/310.16	2
		340/310.17	1
		340/538.11	13
		340/538.12	2
		340/538.15	4
		340/538.16	3
		340/870.01	1
		340/870.02	4
		340/870.03	1
		340/870.16	1
		341/22	1
		345/204	2
		345/648	1
		348/135	1
		348/14.04	1

DISPOSITION CLASSIFICATION(S) OF PATENTS
 FROM ABOLISHED SUBCLASSES REPORT
 PROJECT: E6737

Source Classification	Number Of ORs	New Classification	Number Of ORs
-----	-----	-----	-----
340/310.01	279	361/114	1
		368/11	1
		369/47.1	1
		370/200	1
		370/203	2
		370/206	1
		370/212	1
		370/276	1
		370/282	1
		370/290	1
		370/400	1
		370/445	1
		370/458	1
		370/465	1
		370/475	1
		370/480	1
		370/482	3
		370/486	9
		370/496	2
		370/531	1
		370/535	1
		375/130	4
		375/211	1
		375/219	1
		375/220	1
		375/222	1
		375/232	1
		375/238	1
		375/257	5
		375/258	19
		375/259	11
		375/260	5
		375/273	1
		375/356	1
		379/171	1
		379/413	1
		381/79	1
		398/106	1
		398/115	1
		398/127	1
		439/207	1
		439/622	1
		455/62	1
		455/334	1
		455/402	20
		455/522	2

DISPOSITION CLASSIFICATION(S) OF PATENTS
 FROM ABOLISHED SUBCLASSES REPORT
 PROJECT: E6737

Source Classification	Number Of ORs	New Classification	Number Of ORs		
340/310.01	279	455/3.01	4		
		455/41.1	2		
		455/41.2	1		
		700/17	1		
		714/735	1		
		725/79	1		
		725/103	1		
		725/130	1		
		340/310.02	104	307/1	1
				307/2	1
307/3	8				
307/31	1				
307/140	1				
332/144	1				
340/10.2	1				
340/3.44	1				
340/855.4	1				
340/855.9	1				
340/310.12	18				
340/538.11	16				
340/538.16	1				
340/870.02	3				
340/870.03	1				
340/870.18	1				
370/203	1				
370/294	1				
370/465	1				
370/479	1				
370/482	3				
370/486	1				
370/493	3				
370/503	1				
375/133	2				
375/145	1				
375/222	1				
375/239	1				
375/258	2				
375/259	8				
375/260	2				
375/261	1				
375/272	1				
375/296	1				
375/306	1				
375/308	1				
375/329	1				
375/334	1				

DISPOSITION CLASSIFICATION(S) OF PATENTS
FROM ABOLISHED SUBCLASSES REPORT
PROJECT: E6737

Source Classification	Number Of ORs	New Classification	Number Of ORs
340/310.02	104	375/342	1
		375/344	2
		375/347	1
		375/351	1
		375/356	1
		455/23	1
		455/402	2
		700/295	1
		725/79	1
		340/310.03	40	178/2 R	1
307/3	3		
307/148	1		
340/3.1	1		
340/10.1	1		
340/310.13	4		
340/538.11	1		
340/538.12	5		
340/870.02	1		
340/870.19	1		
370/290	1		
370/486	1		
370/496	1		
375/257	2		
375/258	2		
375/259	1		
375/260	1		
375/285	2		
375/340	1		
375/355	1		
379/35	1		
455/130	1		
455/400	1		
455/402	3		
455/3.02	1		
725/78	1		
340/310.04	11	307/17	1
		340/538.13	1
		370/201	1
		370/464	1
		370/498	1
		370/501	1
		375/238	1
		375/257	1
		375/259	3
		340/310.05	37	33/363 K	1
307/1	2		

DISPOSITION CLASSIFICATION(S) OF PATENTS
FROM ABOLISHED SUBCLASSES REPORT
PROJECT: E6737

Source Classification	Number Of ORs	New Classification	Number Of ORs
340/310.05	37	307/3	8
		307/31	1
		307/141	1
		333/32	1
		340/907	1
		340/310.15	5
		340/538.14	2
		340/538.15	1
		370/486	1
		375/257	1
		375/258	2
		375/259	1
		375/297	1
		455/59	1
		455/60	1
		455/292	1
		455/402	5
340/310.06	42	307/3	3
		307/11	1
		307/40	1
		307/140	1
		307/149	1
		340/310.16	10
		340/538.15	1
		340/870.02	2
		370/214	1
		370/276	3
		370/296	1
		370/389	1
		370/447	1
		370/464	1
		370/465	1
		370/471	1
		370/475	1
		370/479	1
		375/130	1
		375/211	1
375/219	2		
375/222	1		
375/257	1		
375/258	1		
375/344	1		
455/402	2		
340/310.07	46	246/8	1
		307/3	11
		307/13	1

DISPOSITION CLASSIFICATION(S) OF PATENTS
 FROM ABOLISHED SUBCLASSES REPORT
 PROJECT: E6737

Source Classification	Number Of ORs	New Classification	Number Of ORs
-----	-----	-----	-----
340/310.07	46	307/104	10
		333/24 C	1
		340/853.2	1
		340/310.11	1
		340/310.17	1
		340/538.16	1
		340/870.03	1
		340/870.07	1
		375/222	1
		375/238	1
		375/258	4
		375/259	2
		455/402	8
340/310.08	22	307/104	1
		340/288	2
		340/10.6	1
		340/310.18	8
		340/538.16	1
		340/538.17	6
		340/870.07	1
		375/257	2

D. CHANGES TO THE DEFINITIONS (Project No. E-6737)

CLASS 315: ELECTRIC LAMP AND DISCHARGE DEVICES: SYSTEMS

Subclass 76: Under SEE OR SEARCH CLASS in reference to class 340:

Delete:

310.01+

Subclass 85: Under SEE OR SEARCH CLASS in reference to class 340:

Delete:

310.01+

D. CHANGES TO THE DEFINITIONS (Project No. E-6737)

CLASS 333: WAVE TRANSMISSION LINES AND NETWORKS

CLASS DEFINITION: Under SECTION IV- SEE OR SEARCH CLASS in reference to class 340:

Delete:

and subclasses 310.01+ for composite signaling systems (e.g., signal over power line).

Insert:

subclasses 538+ for composite signaling systems (e.g., alarm signal over power line), and subclasses 310.11+ for remote control over power line.

Subclass 236: Under SEE OR SEARCH CLASS in reference to class 340:

Delete:

310.01+

Insert:

310.11+ and 538+

D. CHANGES TO THE DEFINITIONS (Project No. E-6737)

CLASS 340 - COMMUNICATIONS: ELECTRICAL

Definitions abolished

Subclasses:

310.01-310.08

Definitions modified

Class Definition: Section III, under SEE OR SEARCH THIS CLASS, SUBCLASS, in the reference to subclass 533:

Delete:

310.01

Insert:

310.11

Subclass 538 :

Delete:

the subclass definition of subclass 538

Insert:

538 Combined with power line:
Subject matter under subclass 533 wherein the wired communication link is a wired electrical power transmission system.

(1) Note. The system needs not be the power source of the indicating system.

SEE OR SEARCH THIS CLASS, SUBCLASS:

310.11-310.18, for remote control over power line.

288-290, for a signal box system combined with alarm circuit over power line.

320, for signaling systems having electrical signal sent along a fluid conduit.

568.3, for condition responsive, detecting the placement or removal of an article by sending alarm signal over a power cord.

825.57-825.69, for selective pulse actuation which may comprise remote control over AC power line.

SEE OR SEARCH CLASS:

- 246, Railway Switches and Signals, subclasses 1C, 2R-2S for communication and signaling to control of train movements, and particularly subclass 8 for inductive communication using the conducting rails.
- 307, Electrical Transmission or Interconnection Systems, appropriate subclasses for electrical transmission over power line without alarm generation, particularly subclass 3 for transmission of different frequencies or phases, subclass 104 for coupling to highly inductive system, and subclasses 125-131 for electrical condition responsive switching system.
- 333, Wave Transmission Lines and Networks, subclasses 17.3, 32-35, and 124-131 for impedance matching without communication, and subclasses 24R-24C for coupling networks which may include inductive coupling.
- 370, Multiplex Communications, subclass 485 for subscriber carrier communication over multiple frequency which may include the communication over power line.
- 375, Pulse or Digital Communications, subclasses 257-260 for generic digital communication over a cable or transmission line which may conducting electrical power.
- 455, Telecommunications, subclass 41.1 for near field communication with inductive or capacitive coupling, subclass 270 for a radio receiver using the power line as wave collector, and subclass 402 for single channel radio telephone carrier over power line.
- 725, Interactive Video Distribution Systems, subclass 79 for local video distribution system using existing power network, subclass 130 for video distribution system with upstream communication using power signal over network, and subclass 150 for one-way video distribution system using power signal over network.

Subclass 568.3 : Under SEE OR SEARCH THIS CLASS, SUBCLASS,

Delete:

538

Insert:

538-538.17

Delete:

310.01+, for signal over a power line.

Insert:

310.11-310.18, for remote control over power line

Definitions established

310.11. REMOTE CONTROL OVER POWER LINE:

Subject matter under the class definition wherein control communication signals are sent from one point to another in a system by means of an existing power line in the system to control various devices connecting to the power line.

- (1) Note. The system may be an electric street light system wherein control signals are sent over its conductors.
- (2) Note. The information signal may be an address or a code signal.
- (3) Note. Existing power line in this subclass comprises AC power supply (e.g., residential power of 110-240 volts) or DC power supply (e.g., power supply in the vehicle or sprinkler system, etc.).
- (4) Various devices in this subclass may comprise various appliances (e.g., TV tuner, radio tuner, toaster, lighting or printer, etc.).

SEE OR SEARCH THIS CLASS, SUBCLASS:

288-290, for a signal box system combined with alarm circuit over power line.

320, for signaling systems having electrical signal sent along a fluid conduit.

538-538.17, for condition responsive alarm over power line.

568.3, for condition responsive, detecting the placement or removal of an article by sending alarm signal over a power cord.

825.57-825.69, for selective pulse actuation which may comprise remote control over AC power line.

SEE OR SEARCH CLASS:

246, Railway Switches and Signals, subclasses 1C, 2R-2S for communication and signaling to control of train movements, and particularly subclass 3 for inductive communication using the conducting rails.

307, Electrical transmission or interconnection systems, appropriate subclasses for electrical transmission over power line without remote control, particularly subclass 3 for transmission of different frequencies or phases, subclasses 38-41 for selectively connected or controlled load circuits, subclass 104 for coupling to highly inductive system, and subclass 140 for power circuit controlled switch actuation.

333, Wave Transmission Lines and Networks, subclasses 17.3, 32-35, and 124-131 for impedance matching without communication, and subclasses 24R-24C for coupling networks which may include inductive coupling.

375, Pulse or digital communications, subclasses 257-260 for generic digital communications over a conductor which may be a power line without any remote control of various devices as defined above.

455, Telecommunications, subclass 41.1 for near field communication which includes inductive or capacitive coupling, subclass 270 for a radio receiver using the power line as wave collector, and subclass 402 for single channel radio telephone carrier over power line.

700, Data Processing: Generic Control Systems or Specific Applications, appropriate subclasses for remote control over electrical conductors with significant computer data processing, particularly subclasses 22 and 286-298 for controlling

of electrical power distribution, and subclass 276 for controlling the air conditioning system.

- 725, Interactive Video Distribution Systems, subclass 79 for local video distribution system using existing power network, subclass 130 for video distribution system with upstream communication using power signal over network, and subclass 150 for one-way video distribution system using power signal over network.

310.12 Modulation technique:

Subject matter under subclass 310.11 including details of technique for impressing a signal onto a carrier waveform for transmission over a power line.

- (1) Note. The carrier can be a direct current or an alternating current.

310.13 Noise reduction (e.g., filtering):

Subject matter under subclass 310.11 wherein a circuit is provided to compensate for signal defects.

310.14 Zero crossing:

This subclass is indented under subclass 310.13. Subject matter under subclass 310.13 including means to extract information from its carrier wave at a region close to the zero crossing point of the carrier wave.

310.15 Impedance matching (e.g., Y-match or delta match):

This subclass is indented under subclass 310.11. Subject matter under subclass 310.11 wherein a circuit is provided to make the impedance of a line terminal equal to the impedance of a circuit to which it is connected in order to achieve optimum signal transfer.

SEE OR SEARCH CLASS:

- 333, Wave Transmission Lines and Networks, subclasses 17.3, 32-35, and 124-131 for impedance matching without communication.

310.16 Bi-directional (e.g., with transceiver):

Subject matter under subclass 310.11 including a communicating terminal which can transmit and receive signals.

310.17 With inductive coupling (e.g., transformer or torroid):

Subject matter under subclass 310.11 wherein information on the power line is transferred to or from a terminal through a mutual or common inductance.

SEE OR SEARCH CLASS:

- 333, Wave Transmission Lines and Networks, subclasses 24R-24C for coupling networks which may include inductive coupling.

310.18 With coupling plug:

Subject matter under subclass 310.11 wherein information on the power line is transferred to or from a terminal through a connector.

538.11 Modulation technique:

Subject matter under subclass 538 including details of technique for impressing a signal onto a carrier waveform for transmission over a power line.

(1) Note. The carrier can be a direct current or an alternating current.

538.12 Noise reduction (e.g., filtering):

Subject matter under subclass 538 wherein a circuit is provided to compensate for signal defects.

538.13 Zero crossing:

Subject matter under subclass 538.12 including means to extract information from its carrier wave at a region near the zero crossing point of the carrier wave.

538.14 Impedance matching (e.g., Y-match or delta match):

Subject matter under subclass 538 wherein a circuit is provided to make the impedance of a line terminal equal to the impedance of a circuit to which it is connected in order to achieve optimum signal transfer.

SEE OR SEARCH CLASS:

333, Wave Transmission Lines and Networks, subclasses 17.3, 32-35, and 124-131 for impedance matching without communication.

538.15 Bi-directional (e.g., with transceiver):

Subject matter under subclass 538 including a communicating terminal which can transmit and receive signals.

538.16 With inductive coupling (e.g., transformer or torroid):

Subject matter under subclass 538 wherein information on the power line is transferred to or from a terminal through a mutual or common inductance.

SEE OR SEARCH CLASS:

333, Wave Transmission Lines and Networks, subclasses 24R-24C for coupling networks including inductive coupling.

538.17 With coupling plug:

Subject matter under subclass 538.11 wherein information on the power line is transferred to or from a terminal through a connector.

FOREIGN ART COLLECTIONS

The definitions below correspond to abolished subclasses from which these collections were formed. See the Foreign Art Collection Schedule of this Class for specific correspondences. [Note: the titles and definitions for indented art collections include all the details of the one(s) that are hierarchically superior.]

FOR 405 Signal over power line:

Foreign art collection wherein communication signals are sent from one point to another in a system by means of an existing power line in the system.

FOR 406 Modulation technique:

Foreign art collection including details of technique for impressing a signal onto a carrier waveform for transmission over a power line.

(1) Note. The carrier can be a direct current or an alternating current.

FOR 407 Noise reduction (e.g., filtering):

Foreign art collection wherein a circuit is provided to compensate for signal defects.

FOR 408 Zero crossing:

Foreign art collection including means to extract information from its carrier wave at a region close to the zero crossing point of the carrier wave.

FOR 409 Impedance matching (e.g., Y-match or delta match):

Foreign art collection wherein a circuit is provided to make the impedance of a line terminal equal to the impedance of a circuit to which it is connected in order to achieve optimum signal transfer.

FOR 410 Bidirectional (e.g., with transceiver):

Foreign art collection including at least two communicating terminals which can both transmit and receive signals.

FOR 411 With inductive coupling (e.g., transformer or torroid):

Foreign art collection wherein information on the power line is transferred to or from a terminal through a mutual or common inductance.

FOR 412 With coupling plug:

Foreign art collection wherein information on the power line is transferred to or from a terminal through a connector.

D. CHANGES TO THE DEFINITIONS (Project No. E-6737)

CLASS 368: Horology: time measuring systems or devices

Subclass 55: Under SEE OR SEARCH CLASS in reference to class 340:

Delete:

310.01+

Insert:

538+

D. CHANGES TO THE DEFINITIONS (Project No. E-6737)

CLASS 370: MULTIPLEX COMMUNICATIONS

Subclass 485: Under SEE OR SEARCH CLASS in reference to class 340:

Delete:

; and subclasses 310.01+ for a signal over a power line.

Insert:

, subclasses 538+ for signaling over power line, and subclasses 310.11+ for remote control over power line.

D. CHANGES TO THE DEFINITIONS (Project No. E-6737)

CLASS 379: Telephonic communications

Subclass 90.01: Under SEE OR SEARCH CLASS in reference to class 340:

Delete:

310.01+

Insert:

538+

D. CHANGES TO THE DEFINITIONS (Project No. E-6737)

CLASS 455: TELECOMMUNICATIONS

Subclass 3.05: Under SEE OR SEARCH CLASS, in the reference to Class 340:

Delete:

subclasses 310.01 through 310.08

Insert:

310.11-310.18 and 538-539.17

Subclass 270: Under (2) Note:

Delete:

310.01+

Insert:

310.11+ and 538+

Subclass 402: Under SEE OR SEARCH CLASS, in the reference to Class 340:

Delete:

310.01+ for electrical signaling over power line

Insert:

310.11+ for remote control over power line, and 538+ for condition responsive indicating over power line.