Classification(US, IPC, ECLA, F-Term)

Contents

- 1 Classification
  - 1.1 US Classes
  - 1.2 IPC classes
  - 1.3 ECLA classes
  - 1.4 F-Term Classes
  - 1.5 DWPI Classes

Classification

US Classes

US Class Code	Definition
340	Communications: Electrical
340506	Digital comparator systems condition responsive indicating system / with particular system function (e.g., temperature compensation, calibration) / alarm system supervision
340870.02	Communications: electrical / with meter readiing
700	Data processing: generic control systems or specific applications
700291	Data processing: generic control systems or specific applications / electrical power generation or distribution system / energy consumption or demand prediction or estimation
700292	Electrical power generation or distribution system /System protection (e.g., circuit interrupter, circuit limiter, voltage suppressor)
700293	Electrical power generation or distribution system /System protection (e.g., circuit interrupter, circuit limiter, voltage suppressor) /Abnormal power, current, or impedance condition
700294	Electrical power generation or distribution system /System protection (e.g., circuit interrupter, circuit limiter, voltage suppressor) /Abnormal phase, waveform, or polarity condition
700295	Data processing: generic control systems or specific applications / electrical power generation or distribution system / power allocation management (e.g., load adding/shedding)
700296	Data processing: generic control systems or specific applications / electrical power generation or distribution system / power allocation management (e.g., load adding/shedding) - Time based control (e.g., real time or duty cycle)
700297	Electrical power generation or distribution system /Power supply regulation operation
700298	Electrical power generation or distribution system /Power supply regulation operation /By voltage regulation
700299	Specific application of temperature responsive control system
700300	Data processing: generic control systems or specific applications / specific application of temperature responsive control system/ for heating or cooling
702	Data processing: measuring, calibrating, or testing
702057	Measurement system in a specific environment / Electrical signal parameter measurement system
702060	Electrical signal parameter measurement system / power parameter
702062	Electrical signal parameter measurement system / power parameter / power logging (e.g., metering) / including communication means
702062	Measurement system in a specific environment / electrical signal parameter measurement system: / power parameter /power logging (e.g., metering): / including communication means:
702127	Data processing: measuring, calibrating, or testing / measurement system
702183	data processing: measuring, calibrating, or testing / measurement system / performance or efficiency evaluation /diagnostic analysis
702188	data processing: measuring, calibrating, or testing / measurement system / remote supervisory monitoring

IPC classes

IPC Class Code	Definition
B60R	Vehicles, vehicle fittings, or vehicle parts, not otherwise provided for
B60R001602	Electric or fluid circuits specially adapted for vehicles and not otherwise provided for; Arrangement of elements of electric or fluid circuits specially adapted for vehicles and not otherwise provided for / electric
B60R001603	Electric or fluid circuits specially adapted for vehicles and not otherwise provided for; Arrangement of elements of electric or fluid circuits specially adapted for vehicles and not otherwise provided for / electric for supply of electrical power to vehicle subsystems

F24F	Air-conditioning, air-humidification, ventilation, use of air currents for screening
F24F001100	Control or safety systems or apparatus
G01R	Measuring electric variables; measuring magnetic variables
G01R001100	Electromechanical arrangements for measuring time integral of electric power or current, e.g. of consumption (monitoring electric consumption of electrically-propelled vehicles
G01R002200	Arrangements for measuring time integral of electric power or current, e.g. electricity meters (electromechanical arrangements therefor
G05B	Control or regulating systems in general; functional elements of such systems; monitoring or testing arrangements for such systems or elements
G05B001502	Systems controlled by a computer/ electric
G05B001904	Systems controlled by a computer/ electric / Programme control other than numerical control, i.e. in sequence controllers or logic controllers
G05B001907	Systems controlled by a computer/ electric / Programme control other than numerical control, i.e. in sequence controllers or logic controllers / where the programme is defined in the fixed connection of electrical elements, e.g. potentiometers, counters, transistors
H02J	Circuit arrangements or systems for supplying or distributing electric power; systems for storing electric energy
H02J000314	Circuit arrangements for ac mains or ac distribution networks / for adjusting voltage in ac networks by changing a characteristic of the network load / by switching loads on to, or off from, network, e.g. progressively balanced loading.
H04W	Wireless communications networks
H04W005200	Power management, e.g. TPC [Transmission Power Control], power saving or power classes
H04W005204	TPC [Transmission power control]
H04W005230	using constraints in the total amount of available transmission power
H04W005234	TPC management, i.e. sharing limited amount of power among users or channels or data types, e.g. cell loading

ECLA classes

ECLA Class Code	Definition
H04L	Data switching networks
H04L001226M2B2	Data switching networks / Details / Monitoring arrangements; Testing arrangements / Monitoring arrangements / processing of captured monitoring data / Report generation / for device related reporting
H04L001226M3A2	Data switching networks / Details / Monitoring arrangements; Testing arrangements / Monitoring arrangements / Monitoring using or based on specific metrics / based on availability / based on functioning
H04L001228H3B	Data switching networks / characterised by path configuration, e.g. LAN [Local Area Networks] or WAN [Wide Area Networks] / Home automation networks /Controlling appliance services of a home automation network by calling their functionalities / based on user interaction within the home
H04N	Pictorial communication, e.g. television
H04N0005374A	Transforming light or analogous information into electric information / using solid-state image sensors / SSIS architecture; Circuitry associated therewith / Addressed sensors, e.g. MOS or CMOS sensors / comprising control or output lines sharing a plurality of functions, e.g. output or driving or reset or power lines

F-Term Classes

F-Term Code	Definition
2F073EE16	Arrangements for transmission of measured signals / Monitoring of reliability and electric sources / long-distance management of local power
2G013	Apparatuses for measuring time integral of electric power or current
2G026	Power meters; power and power factor measurement; test and calibration
2G126	Measuring of electric power, power factor, electric energy; test, calibration
3L030CC10	Air conditioning controllers / Sensing parameters / power, current
3L060AA03	Energy reduction, more efficiency
5B011FF03	Configuration of power source and system/ Remote power supply control
5B011FF04	Configuration of power source and system/ Remote power supply control /Network systems
5B011GG01	Monitoring power source/ Monitoring ac power sources

5B011GG02	Monitoring power source/ Monitoring dc power sources
5B011GG03	Monitoring power source/ Monitoring dc power sources/ Monitoring voltages
5B011GG04	Monitoring power source/ Monitoring dc power sources / Monitoring voltages /Direct monitoring by using voltage comparing means
5B011GG06	Monitoring power source/ Monitoring dc power sources / Monitoring currents
5B011GG11	Monitoring power source / Using simulated loads
5B011GG12	Monitoring power source / Measuring power interrupted time or checking power failures
5B011GG13	Monitoring power source/ Predicting power supply conditions
5B011GG16	Monitoring power source/ Detecting failures of power supply arrangements
5B011GG17	Monitoring power source / Testing or diagnosing power sources
5B011LL01	Power saving, excluding automatic power cutoff / by preventing current leakage
5B011LL02	Power saving, excluding automatic power cutoff / by controlling or selecting voltages
5B011LL05	Power saving, excluding automatic power cutoff / by special structures
5B011LL06	Power saving, excluding automatic power cutoff / by special structures / Power saving before starting to use
5B011LL10	Power saving, excluding automatic power cutoff/ Power saving in backup power sources
5B011LL11	Power saving, excluding automatic power cutoff / by switching to power saving modes
5B011LL12	Power saving, excluding automatic power cutoff / by switching to power saving modes / by switching CPU modes
5B011LL14	Power saving, excluding automatic power cutoff / by switching to power saving modes / by switching CPU modes / by switching the modes of peripheral devices
5B011LL15	Power saving, excluding automatic power cutoff / by switching to power saving modes / by switching CPU modes / by switching the modes of peripheral devices / by changing display brightness
5G062	Electric energy storage systems
5G064	Remote monitoring and control of power-distribution networks
5G064AA09	Remote monitoring and control of power-distribution networks / Combined use of signal transmission lines with other lines / Combined use with alternating-current power lines
5K048HA31	Components /Power supplies
5K048HA32	Components /Power supplies /Remote supply of power supplies
5K048HA34	Components /Power supplies /Monitor parts of power supplies
5K048HA35	Components /Power supplies /Reserve power supplies
5K048HA39	Components /Power supplies/ Solar cells

DWPI Classes

DWPI Manualcodes	Definition
U24-H04	Power management techniques - Includes operation of a PSU to save/reduce battery energy dissipation and mains power. Operation measures may include switching off or operating in low power consumption mode, slowing of processor clock frequency, current/voltage control .
U24-K	PSU power-saving mode/operation - This code covers operation of a power supply unit within portable equipment to reduce battery dissipation.
W05-D07A	For home automation-Includes home bus systems. Heating, ventilating, air conditioning, water heater,lighting
W05-D07C	For building control - Includes systems for intelligent buildings.HVAC, heating, ventilating, air conditioning, environment control, computer, sensor interrogation, alarm.
X12-H03A3	Switching control for equipment connected to mains supply / Includes remotely generated signals to switch domestic equipment, e.g. air conditioner, fridge etc., on and off.
X12-H04	Utility load measurements
X12-H04A	Remote metering / Includes arrangements for obtaining meter readings from the customer premises-based meters. Customers, in this context, include domestic, commercial and industrial users.
X12-H04C	Individual transmission/distribution/mains - Includes current, voltage, power, energy, frequency, etc.meters, per se. Does not include meters not designed for the purpose of generation, ansmission/distribution. Where the meter has the facility to be interrogated by a central station or electricity provider.

X12-H04D	Metering/measurement systems - Includes arrangements/circuitry for obtaining measures of voltage, current, etc for power systems.
X12-H04E	Other metering/measurement systems - Includes recording of transients, harmonics, over voltages/current data, line fault parameters, lightning strikes, etc.
X12-H09	Other power supply/distribution aspects