CPC  COOPERATIVE PATENT CLASSIFICATION

G  PHYSICS
   (NOTES omitted)

INSTRUMENTS

G06  COMPUTING; CALCULATING; COUNTING (score computers for games A63B 71/06, A63D 15/20, A63F 1/18; combinations of writing implements with computing devices B43K 29/08)
   (NOTES omitted)

G06Q  DATA PROCESSING SYSTEMS OR METHODS, SPECIALLY ADAPTED FOR ADMINISTRATIVE, COMMERCIAL, FINANCIAL, MANAGERIAL, SUPERVISORY OR FORECASTING PURPOSES; SYSTEMS OR METHODS SPECIALLY ADAPTED FOR ADMINISTRATIVE, COMMERCIAL, FINANCIAL, MANAGERIAL, SUPERVISORY OR FORECASTING PURPOSES, NOT OTHERWISE PROVIDED FOR

NOTES
1. Groups G06Q 10/00 - G06Q 50/00 and G06Q 99/00 only cover systems or methods that involve significant data processing operations, i.e. data processing operations that need to be carried out by a technological, e.g. computing, system or device. Group G06Q 90/00 covers systems or methods that do not involve significant data processing, when both of the following conditions are fulfilled:
   • the systems or methods are specially adapted for the purposes mentioned in the subclass title or the titles of groups G06Q 10/00 - G06Q 50/00; and
   • the systems or methods cannot be classified elsewhere in the IPC, for example by applying the principles described in paragraph 96 of the Guide.
When classifying such systems or methods in group G06Q 90/00, additional classification may be made in the most closely related group of this or any other subclass, if this classification gives information about the application of the systems or methods that could be of interest for searching. Such non-obligatory classification must be given as ”additional information”.
2. When classifying in groups G06Q 10/00 - G06Q 40/00, systems or methods that are specially adapted for a specific business sector must also be classified in group G06Q 50/00, when the special adaptation is determined to be novel and non-obvious.
3. In this subclass, the first place priority rule is applied, i.e. at each hierarchical level, classification is made in the first appropriate place.

WARNING
G06Q has been largely refined to bring most of the former USPC 705 groups into ECLA, prior to CPC launch. Therefore, most of the new G06Q subdivisions are not complete pending reclassification. Users are invited to systematically consult also the hierarchically higher groups, up to the first valid IPC group. For example, while searching in G06Q 50/2053, it is appropriate to consult also G06Q 50/205 and G06Q 50/20.

10/00  Administration; Management
10/02  .  Reservations, e.g. for tickets, services or events
10/025 .  .  (Coordination of plural reservations, e.g. plural trip segments, transportation combined with accommodation)
10/04  .  Forecasting or optimisation, e.g. linear programming, "travelling salesman problem" or "cutting stock problem" (data collection specially adapted for marketing, price determination or demand forecasting G06Q 30/02)
10/043 .  .  (Optimisation of two dimensional placement, e.g. cutting of clothes or wood)
10/047 .  .  (Optimisation of routes, e.g. "travelling salesman problem")

10/06  .  Resources, workflows, human or project management, e.g. organising, planning, scheduling or allocating time, human or machine resources; Enterprise planning; Organisational models (financial asset management G06Q 40/06)
10/063 .  .  (Operations research or analysis)
10/0631 .  .  .  (Resource planning, allocation or scheduling for a business operation)
10/06311 .  .  .  .  (Scheduling, planning or task assignment for a person or group)
10/063112 .  .  .  .  .  (Skill-based matching of a person or a group to a task)
10/063114 .  .  .  .  .  .  (Status monitoring or status determination for a person or group)
10/063116 .  .  .  .  .  .  .  (Schedule adjustment for a person or group)
10/063118 .  .  .  .  .  .  .  .  (Staff planning in a project environment)
is incomplete pending reclassification of documents from group G06Q 10/10.

Groups G06Q 10/10 and G06F 19/328 should be considered in order to perform a complete search.

WARNING

Group G06Q 10/10 is incomplete pending reclassification of documents from group G06F 19/328.

Groups G06Q 10/10 and G06F 19/328 should be considered in order to perform a complete search.

10/07 . . . (Computer aided management of electronic mail (electronic mail protocols H04L 29/06; arrangements for user-to-user messaging in packet-switching networks, e.g. e-mail or instant messages, H04L 41/00))

10/09 . . . (Time management, e.g. calendars, reminders, meetings, time accounting (organizing, planning, scheduling or allocating time G06Q 10/06))

20/00 Payment architectures, schemes or protocols (apparatus for performing or posting payment transactions G07F 7/08, G07F 19/00; electronic cash registers G07G 1/12)

20/02 . . . involving a neutral party, e.g. certification authority, notary or trusted third party [TTP]

20/03 . . . (characterized in that the neutral party is a clearing house)

20/04 . . . (including a payment switch or gateway)

20/05 . . . (Payment circuits)

20/06 . . . (Payment circuits, e.g. involving electronic currency used among participants of a common payment scheme)

20/07 . . . (using e-cash)

20/08 . . . (e-cash with decreasing value according to a parameter, e.g. time)

20/09 . . . (e-cash managed centrally)

20/055 . . . (e-cash managed locally)

20/08 . . . (Payment architectures)

20/085 . . . (including remote charge determination or related payment systems)

20/0855 . . . (involving a third party)

20/10 . . . (Payment architectures)

20/105 . . . (specially adapted for electronic funds transfer [EFT] systems; specially adapted for home banking systems)

20/1055 . . . (Payment architectures)

20/12 . . . (specially adapted for electronic shopping systems)

20/123 . . . (Shopping for digital content)

20/1235 . . . (with control of digital rights management [DRM])

20/127 . . . (Shopping or accessing services according to a time-limitation)

20/14 . . . (Benefit package)

20/145 . . . (Benefit package)
Payment schemes or models

- Using wireless devices
- Using a wired telephone network to facilitate payment
- Pre-payment schemes, e.g. "pay before"
- Debit schemes, e.g. "pay now"
- Credit schemes, i.e. "pay after"
- Characterised by micropayments
- Based on the use of peer-to-peer networks
- Characterized in that multiple accounts are available to the payer
- Using cards, e.g. integrated circuit [IC] cards or magnetic cards
- Active cards, i.e. cards including their own processing means, e.g. including an IC or chip
- Cards acting autonomously as pay-media
- Cards defining paid or billed services or quantities
- Cards including a counter
- The counter having non-monetary units, e.g. trips
- Cards serving only as information carrier of service
- Passive cards
- Single-use cards, i.e. without possibility of recharging
- Rechargeable cards
- Virtual cards
- Contactless payments by cards
- Payments by additional cards plugged into M-devices
- Card activation or deactivation
- Personalisation of cards for use
- Downloading or loading of personalisation data
- Personalisation of two or more cards
- Preliminary personalisation for transfer to user
- Aspects of software for card payments
- Software being resident on card
- Software being in the reader
- Cards having a plurality of specified features
- Multiple accounts on card
- Multiple applications on card
- Multiple memory zones on card
- Access rights to memory zones
- Hierarchy of users of cards
- Parent-child type, i.e. where parent has control on child rights
- Using electronic wallets or electronic money safes
- With the personal data files for a user
- Including intelligent token, e.g. electronic purse
- Intelligent token initializing or reloading
- Involving authentication
- Balancing accounts
- [e-cash details, e.g. blinded, divisible or detecting double spending]
- Payment protocols; Details thereof
- Currency conversion
- Insuring higher security of transaction
- Electronic credentials
- Use of certificates or encrypted proofs of transaction rights
- Combining multiple encryption tools for a transaction
- Use of electronic signatures
- Use of message hashing
- Involving key management
- Anonymous user system
- Use of an alias or a single-use code
Commerce, e.g. shopping or e-commerce

30/00

30/01 . . . [Customer relationship, e.g. warranty]
30/012 . . . [Product or service warranty]
30/014 . . . [Product recall]
30/0016 . . . [Customer service, i.e. after purchase service]
30/018 . . . [Business or product certification or verification]
30/0185 . . . [Product, service or business identity fraud]
30/02 . . . Marketing, e.g. market research and analysis, surveying, promotions, advertising, buyer profiling, customer management or rewards; Price estimation or determination
30/0201 . . . [Market data gathering, market analysis or market modelling]
30/0202 . . . [Market predictions or demand forecasting]
30/0203 . . . [Market surveys or market polls]
30/0204 . . . [Market segmentation]
30/0205 . . . [Location or geographical consideration]
30/0206 . . . [Price or cost determination based on market factors]
30/0207 . . . [Discounts or incentives, e.g. coupons, rebates, offers or upsales]
30/0208 . . . [Trade or exchange of a good or service for an incentive]
30/0209 . . . [Incentive being awarded or redeemed in connection with the playing of a video game]
30/0211 . . . [Determining discount or incentive effectiveness]
30/0212 . . . [Chance discounts or incentives]
30/0213 . . . [Consumer transaction fees]
30/0214 . . . [Referral award systems]
30/0215 . . . [Including financial accounts]
30/0216 . . . [Investment accounts]
30/0217 . . . [Giving input on a product or service or expressing a customer desire in exchange for an incentive or reward]
30/0218 . . . [based on score]
30/0219 . . . [based on funds or budget]
30/0221 . . . [Re-usable coupons]
30/0222 . . . [During e-commerce, i.e. online transactions]
30/0223 . . . [based on inventory]
30/0224 . . . [based on user history]
30/0225 . . . [Avoiding frauds]
30/0226 . . . [Frequent usage incentive systems, e.g. frequent flyer miles programs or point systems]
30/0227 . . . [Frequent usage incentive value reconciliation between diverse systems]
30/0228 . . . [On-line clearing houses]
30/0229 . . . [Multi-merchant loyalty card systems]
30/0231 . . . [Awarding of a frequent usage incentive independent of the monetary value of a good or service purchased, or distance travelled]
30/0232 . . . [Frequent usage rewards other than merchandise, cash or travel]
30/0233 . . . [Method of redeeming a frequent usage reward]
30/0234 . . . [Rebate after completed purchase, i.e. post transaction awards]
30/0235 . . . [Including timing, i.e. limited awarding or usage time constraint]
30/0236 . . . [Incentive or reward received by requiring registration or ID from user]
30/0237 . . . [at kiosk]
30/0238 . . . [at point-of-sale [POS]]
30/0239 . . . [Online discounts or incentives]
30/0241 . . . [Advertisement]
30/0242 . . . [Determination of advertisement effectiveness]
30/0243 . . . [Comparative campaigns]
30/0244 . . . [Optimization]
30/0245 . . . [Surveys]
30/0246 . . . [Traffic]
30/0247 . . . [Calculate past, present or future revenues]
30/0248 . . . [Avoiding fraud]
30/0249 . . . [based upon budgets or funds]
30/0251 . . . [Targeted advertisement]
30/0252 . . . [based on events or environment, e.g. weather or festivals]
30/0253 . . . [During e-commerce, i.e. online transactions]
30/0254 . . . [based on statistics]
30/0255 . . . [based on user history]
30/0256 . . . [User search]
30/0257 . . . [User requested]
30/0258 . . . [Registration]
30/0259 . . . [based on store location]
Buying, selling or leasing transactions
Billing or invoicing, e.g. tax processing in
Rental, i.e. leasing
Electronic shopping
Price estimation or determination
Business establishment or product rating or
recommendation
Period of advertisement exposure
Fees for advertisement
Split fees
Auctions
Advertisement creation
Online advertisement
Product appraisal
Customer communication at a business location,
e.g. providing product or service information,
consulting
Business establishment or product rating or
recommendation
Price estimation or determination
Time or distance, e.g. usage of parking meters
taximeters

NOTE
Constructional aspects of time meters are classified in groups G07B 13/00,
G07B 15/00 or G07F 17/24

Billing or invoicing, e.g. tax processing in connection with a sale
Buying, selling or leasing transactions
Electronic shopping
Catalogue ordering
Supply or demand aggregation
Regulated
Buyer or seller confidence or verification
Request for offers or quotes
Third-party assisted
Anonymousing
Representative agent
Neutral agent
Item configuration or customization
Item investigation
Directed, with specific intent or strategy
(for generating comparisons)
Item recommendations
Lists, e.g. purchase orders, compilation or processing
Processing of requisition or of purchase orders
Approvals
Item locations
Shopping interfaces
Graphical representation of items or shoppers
Rental, i.e. leasing

Auctions, matching or brokerage (matching or brokerage for stock exchange G06Q 40/04)
Finance; Insurance; Tax strategies; Processing of corporate or income taxes
Banking, e.g. interest calculation, credit approval, mortgages, home banking or on-line banking
Credit processing or loan processing, e.g. risk analysis for mortgages
Exchange, e.g. stocks, commodities, derivatives or currency exchange
Investment, e.g. financial instruments, portfolio management or fund management
Insurance, e.g. risk analysis or pensions

Tax strategies

Accounting

Systems or methods specially adapted for specific business sectors, e.g. utilities or tourism (healthcare informatics G16H)
Social networking
Agriculture; Fishing; Mining
Manufacturing
Electricity, gas or water supply
Construction
Services
Hotels or restaurants
Travel agencies
Real estate
Property management
Land development
Closing
Legal services; Handling legal documents
Alternative dispute resolution
50/184 . . . [Intellectual property management]
50/186 . . . [Estate planning]
50/188 . . . [Electronic negotiation]
50/20 . . . Education
50/205 . . . [Education administration or guidance]
50/2053 . . . [Education institution selection, admissions, or financial aid]
50/2057 . . . [Career enhancement or continuing education service]
50/22 . . . Social work

WARNING
Group G06Q 50/22 is impacted by reclassification into groups G06Q 50/22 and G16H 10/00 – G16H 80/00.
Groups G06Q 50/22 and G16H 10/00 – G16H 80/00 should be considered in order to perform a complete search.

50/24 . . . Patient record management (processing of medical or biological data for scientific purposes G06F 19/00)

WARNING
Group G06Q 50/24 is no longer used for the classification of documents as of January 1, 2018. The content of this group is being reclassified into groups G16H 10/00 – G16H 80/00.
Groups G06Q 50/24 and G16H 10/00 – G16H 80/00 should be considered in order to perform a complete search.

50/26 . . . Government or public services
50/265 . . . [Personal security, identity or safety]
50/28 . . . Logistics, e.g. warehousing, loading, distribution or shipping
50/30 . . . Transportation; Communications
50/32 . . . Post and telecommunications (franking apparatus G07B 17/00)
50/34 . . . Betting or bookmaking, e.g. Internet betting

NOTE
When classifying in this group, classification should also be made in group G07F 17/32

90/00 Systems or methods specially adapted for administrative, commercial, financial, managerial, supervisory or forecasting purposes, not involving significant data processing
90/20 . . . [Destination assistance within a business structure or complex]
90/205 . . . [Building evacuation]
99/00 Subject matter not provided for in other groups of this subclass

2220/00 Business processing using cryptography (postage metering system using cryptography G06Q 2250/05)
2220/10 . . . Usage protection of distributed data files
2220/12 . . . Usage or charge determination
2220/123 . . . involving third party for collecting or distributing payments, e.g. clearinghouse
2220/127 . . . Adding plural layers of rights or limitations by other than the original producer

2220/14 . . . Requiring a supplemental attachment or input, e.g. a dongle, to open
2220/145 . . . Specific computer ID, e.g. serial number, configuration
2220/16 . . . Copy protection or prevention
2220/165 . . . Having origin or program ID
2220/18 . . . Licensing

2230/00 Voting or election arrangements

2240/00 Transportation facility access, e.g. fares, tolls or parking
2250/00 Postage metering systems
2250/05 . . . using cryptography
2250/053 . . . Reloading or recharging
2250/057 . . . comprising printing details, e.g. verification of marks
2250/10 . . . Special services or fees, e.g. discounts, surcharges or adjustments
2250/20 . . . Recharging
2250/30 . . . Record keeping
2250/40 . . . Data protection
2250/50 . . . with specific mail handling means
2250/60 . . . involving mailed item weight
2250/70 . . . Specific printing
2250/80 . . . Rate updating
2250/90 . . . Specialized function performed
2250/905 . . . Display controlling