SECTION G — PHYSICS

G07 CHECKING-DEVICES

G07B TICKET-ISSUING APPARATUS; TAXIMETERS; ARRANGEMENTS OR APPARATUS FOR COLLECTING FARES, TOLLS OR ENTRANCE FEES AT ONE OR MORE CONTROL POINTS; FRANKING APPARATUS

Subclass index

MACHINES FOR PRINTING OR ISSUING TICKETS; DETAILS THEREOF	1/00, 3/00, 5/00
OTHER APPARATUS OR SYSTEMS CONCERNING TICKETS	
Holders; punches; validating; cancelling	7/00, 9/00, 11/00
TAXIMETERS	13/00
ARRANGEMENTS OR APPARATUS FOR COLLECTING FARES, TOLLS OR ENTRANCE FEES AT	
ONE OR MORE CONTROL POINTS	15/00
FRANKING APPARATUS	17/00

	MORE CONTROL POINTS NG APPARATUS
1/00	Machines for printing and issuing tickets [1, 2006.01]
1/02	 employing selectable printing plates [1, 2006.01]
1/04	 • wherein the plates are inserted [1, 2006.01]
1/06	 without selectable printing plates [1, 2006.01]
1/08	• portable [1, 2006.01]
3/00	Machines for issuing preprinted tickets [1, 2006.01]
3/02	 from stock in wound strip form [1, 2006.01]
3/04	• from a stack [1, 2006.01]
5/00	Details of, or auxiliary devices for, ticket-issuing machines (for validating inserted tickets G07B 11/02) [1, 2006.01]
5/02	• for cutting-off or separating tickets [1, 2006.01]
5/04	 for recording or registering tickets issued [1, 2006.01]
5/06	 for preventing fraudulent operation [1, 2006.01]
5/08	 for avoiding incorrect action of the machine [1, 2006.01]
5/10	 indicating when ticket supply is exhausted [1, 2006.01]
5/12	 allowing manual writing on the tickets [1, 2006.01]
7/00	Holders providing direct manual access to the tickets [1, 2006.01]
9/00	Ticket punches (punching or perforating pliers B26F 1/36) [1, 2006.01]
9/02	• Toy ticket-punches [1, 2006.01]
11/00	Apparatus for validating or cancelling issued tickets [1, 2, 2006.01]

- 13/02 • Details; Accessories [1, 2006.01] 13/04 • • for indicating fare or state of hire [1, 2006.01]
 - • Driving arrangements [1, 2006.01]
- 13/06
- 13/08 • • Tariff-changing arrangements [1, 2006.01]
- 13/10 automatically actuated [1, 2006.01]

15/00 Arrangements or apparatus for collecting fares, tolls or entrance fees at one or more control points

(handling coins or paper currency G07D; apparatus for vending or hiring articles or services activated by coins, credit cards, paper currency or the like G07F 7/00, G07F 17/00) [1, 2006.01, 2011.01]

Note(s) [2011.01]

Data processing aspects of payment systems or protocols relating to toll, entrance fee or fare collection, e.g. in road pricing or congestion charging, are also classified in G06Q 20/00.

- 15/02 • taking into account a variable factor such as distance or time, e.g. for passenger transport, parking systems or car rental systems (G07B 15/06 takes precedence; taximeters G07B 13/00; parking meters per se G07F 17/24) [1, 2006.01, 2011.01]
 - • comprising devices to free a barrier, turnstile, or the like (turnstiles with registering means G07C 9/02) [1, 2006.01]
 - · Arrangements for road pricing or congestion charging of vehicles or vehicle users, e.g. automatic toll systems [2011.01]

Note(s) [2011.01]

15/04

15/06

This group covers the identification or tracking of vehicles or vehicle users for the purpose of road pricing or congestion charging, which means that vehicles or vehicle users are not necessarily channelled through fixed control points, e.g. toll booths or overhead gantries, but may be detected at a number of places when they travel in normal fashion in a pre-defined locality, e.g. a defined area in a city centre or an expressway, and where the information so generated is then used to determine a charge to be paid.

- 11/02 • for validating inserted tickets [1, 2006.01]
- • by printing [2, 2006.01] 11/03
- 11/05 • • by perforating [2, 2006.01]
- 11/07 • • by separating part of ticket [2, 2006.01]
- 11/09 · · · combined with receptacle for separated part of ticket [2, 2006.01]
- 11/11 for cancelling tickets [2, 2006.01]
- **Taximeters [1, 2006.01]** 13/00

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17/00 Franking apparatus [1, 2006.01]

17/04 • with means for avoiding misuse **[1, 2006.01]**

• with means for computing or counting [1, 2006.01]

TIME OR ATTENDANCE REGISTERS; REGISTERING OR INDICATING THE WORKING OF MACHINES; GENERATING RANDOM NUMBERS; VOTING OR LOTTERY APPARATUS; ARRANGEMENTS, SYSTEMS, OR APPARATUS FOR CHECKING NOT PROVIDED FOR ELSEWHERE (identification of persons, e.g. finger-printing, footprinting, A61B 5/117; indicating or recording apparatus for measuring in general, analogous apparatus but in which the input is not a variable to be measured, e.g. a hand operation, G01D; clocks, clock mechanisms G04B, G04C; time-interval measuring G04F; counting mechanisms per se G06M)

Subclass index

REGISTERING TIME OF EVENTS OR ELAPSED TIME	1/00
REGISTERING THE WORKING OF MACHINES; OF VEHICLES; DETAILS THEREOF	3/00, 5/00, 7/00
INDIVIDUAL ENTRY OR EXIT REGISTERS	9/00
CHECKING APPARATUS NOT PROVIDED FOR ELSEWHERE	11/00
VOTING APPARATUS; GENERATING RANDOM NUMBERS, LOTTERY APPARATUS	13/00, 15/00

1/00 Registering, indicating, or recording the time of events or elapsed time, e.g. time-recorders for work people (registering or indicating the working of machines or vehicles G07C 3/00, G07C 5/00) [1, 2006.01]

Note(s)

Groups G07C 1/20-G07C 1/32 take precedence over groups G07C 1/02-G07C 1/10.

- not involving the registering, indicating, or recording of other data [1, 2006.01]
- 1/04 • wherein the time is indicated in figures **[1, 2006.01]**
- 1/06 • with apparatus adapted for use with individual cards [1, 2006.01]
- wherein the time is indicated by marking an element, e.g. a card or tape, in a position determined by the time [1, 2006.01]
- together with the recording, indicating, or registering of other data, e.g. of signs of identity (together with the recording of a continuously-varying variable G01D or the appropriate other subclass of class G01, dependent on the variable) [1, 2006.01]
- 1/12 • wherein the time is indicated in figures **[1, 2006.01]**
- 1/14 • with apparatus adapted for use with individual cards [1, 2006.01]
- • wherein the time is indicated by marking an element, e.g. a card or tape, in a position determined by the time [1, 2006.01]
- 1/18 • with apparatus adapted for use with individual cards [1, 2006.01]
- 1/20 Checking timed patrols, e.g. of watchman **[1, 2006.01]**
- 1/22 in connection with sports or games [1, 2006.01]
- 1/24 Race time-recorders (race-finish cameras G03B 41/00) **[1, 2006.01]**
- 1/26 • Pigeon-timing or like equipment **[1, 2006.01]**
- 1/28 • Indicating playing time [1, 2006.01]
- Parking meters (registering or indicating waiting time of vehicles by means driven by the vehicle G07C 5/02; coin-freed parking meters G07F 17/24) [1, 2006.01]
- 1/32 Time-recording locks (locks giving indication of unauthorised unlocking E05B 39/00) [1, 2006.01]

- 3/00 Registering or indicating the condition or the working of machines or other apparatus, other than vehicles (engine indicators G01L; testing apparatus incident to its manufacture G01M; signalling arrangements per se, indicating undesired or abnormal working conditions G08B) [1, 2006.01]
- Registering or indicating working or idle time only [1, 2006.01]
- 3/04 • using counting means or digital clocks **[1, 2006.01]**
- 3/06 • in graphical form [1, 2006.01]
- Registering or indicating the production of the machine either with or without registering working or idle time [1, 2006.01]
- 3/10 • using counting means **[1, 2006.01]**
- 3/12 • in graphical form **[1, 2006.01]**
- 3/14 Quality control systems **[1, 2006.01]**
- 5/00 Registering or indicating the working of vehicles (for measuring distance travelled or combinations of speed and distance G01C; engine indicators G01L; devices for measuring speed or acceleration G01P; apparatus forming part of taximeters G07B) [1, 2006.01]
- Registering or indicating driving, working, idle, or waiting time only [1, 2006.01]
- 5/04 • using counting means or digital clocks **[1, 2006.01]**
- 5/06 • in graphical form **[1, 2006.01]**
- Registering or indicating performance data other than driving, working, idle, or waiting time, with or without registering driving, working, idle, or waiting time [1, 2006.01]
- 5/10 • using counting means or digital clocks **[1, 2006.01]**
- 5/12 • in graphical form [1, 2006.01]
- 7/00 Details or accessories common to the registering or indicating apparatus of groups G07C 3/00 and G07C 5/00 [1, 2006.01]
- 9/00 Individual entry or exit registers [1, 2006.01]
- 9/02 Turnstiles with registering means (coin-freed aspects G07F) [1, 2006.01]

11/00 Arrangements, systems, or apparatus for checking, e.g. the occurrence of a condition, not provided for elsewhere (for checking lottos or bingo games A63F 3/06; signalling or alarm arrangements G08B) [1, 2006.01]

Voting apparatus [1, 2006.01]

13/02 • Ballot boxes [1, 2006.01]

> Generating random numbers; Lottery apparatus (digital computer arrangements for generating random or pseudo-random numbers G06F 7/58; generating electric pulses at random intervals H03K 3/84) [1, 3, 2006.01]

G07D HANDLING OF COINS OR OF PAPER CURRENCY OR SIMILAR VALUABLE PAPERS, e.g. TESTING, SORTING BY DENOMINATIONS, COUNTING, DISPENSING, CHANGING OR DEPOSITING [2]

15/00

Note(s) [2011.01]

13/00

In this subclass, the following terms or expressions are used with the meaning indicated:

- "coins" also covers tokens of similar nature;
- nds or the like.

•	"paper currency or similar valuable papers" covers banknotes, bills, cheques, vouchers, securities, bon		
1/00 1/02 1/04	 Coin dispensers [1, 2006.01] giving change [1, 2006.01] dispensing change equal to a sum deposited [1, 2006.01] 	7/00	Testing specially adapted genuineness of paper curpapers, e.g. for segregatin unacceptable or alien to a
1/06	 dispensing the difference between a sum paid and a sum charged [1, 2006.01] 		Note(s) [7]
1/08	• • hand actuated [1, 2006.01]		Groups G07D 7/16-G07D groups G07D 7/02-G07D 7
3/00	Sorting a mixed bulk of coins into denominations [1, 7, 2006.01]	7/02	 using electric means (Go precedence) [7, 2006.01
3/02	• Sorting coins by means of graded apertures [1, 2006.01]	7/04	 using magnetic means, e imprint [7, 2006.01]
3/04	arranged on an inclined rail [1, 2006.01]	7/06	 using wave or particle ra
3/06	arranged along a circular path [1, 2006.01]	7/08	• • Acoustic waves [7, 2
3/08	 arranged on a helix [1, 2006.01] 	7/10	 Microwaves [7, 2006
3/10 3/12	 provided by sieves arranged in series [1, 2006.01] Sorting coins by means of stepped	7/12	 Visible light, infra-re radiation [7, 2006.01]
57 1 2	deflectors [1, 2006.01]	7/14	 using chemical means [7
3/14	Apparatus driven under control of coin-sensing	7/16	 Testing the dimensions
	elements [1, 2006.01]	7/18	• Testing the stiffness [7,
3/16	• in combination with coin-counting [1, 2006.01]	7/20	• Testing patterns thereon
5/00	Testing specially adapted to determine the identity or genuineness of coins, e.g. for segregating coins which are unacceptable or alien to a currency [1, 7, 2006.01]	9/00 9/02	Counting coins (in combin G07D 3/16); Handling of the other groups of this substitute of the Change trays [1, 2006.0]
	Note(s) [3]	9/04	 Hand- or motor-driven coins [1, 2006.01]
	In groups G07D 5/02-G07D 5/10, the last place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the last appropriate place.	9/06	 Devices for stacking or a support, e.g. apertured coins [1, 2006.01]
5/02	• Testing the dimensions, e.g. thickness, diameter; Testing the deformation [3, 2006.01]	11/00	Devices accepting coins of depositing machines (appa
5/04	• Testing the weight [3, 2006.01]		coins or the like G07F; app
5/06	Testing the hardness or elasticity [3, 2006.01]		paper currency G07F 7/04;
5/08	Testing the magnetic or electric		G07F 19/00) [5, 2006.01]
5/10	properties [3, 2006.01]Testing the rim, e.g. the milling of the rim [3, 2006.01]	13/00	Handling of coins or of pa valuable papers, characte mechanisms not covered l

d to determine the identity or rrency or similar valuable ing those which are a currency [1, 2, 2006.01]

7/20 take precedence over 7/14

- G07D 7/04, G07D 7/06 take
- e.g. detection of magnetic
- radiation [7, 2006.01]
- 2006.01]
- 6.01]
- ed or ultra-violet 1]
- [7, 2006.01]
- [7, 2006.01]
 - 2006.01]
- n **[7, 2006.01]**
- ination with coin-sorting coins not provided for in subclass [1, 2006.01]
- 01]
- devices for counting
- otherwise arranging coins on d plate for use in counting
- or paper currency, e.g. paratus freed or actuated by paratus freed or actuated by 1; complete banking systems
- paper currency or similar ole papers, characterised by a combination of mechanisms not covered by a single one of groups G07D 1/00-G07D 11/00 [5, 2006.01]

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Note(s)

- 1. This subclass <u>does not cover</u> constructions or details of apparatus which includes, or is combined with, coin-actuated mechanisms but is not specially adapted or modified for use therewith. Such constructions or details are covered by the relevant subclass for the particular apparatus.
- 2. In this subclass, the following term is used with the meaning indicated:
 - "coins" covers also tokens or the like.

$\underline{Subclass\ index}$

Coin : APPARA' Dispe COMPLE	GEMENTS OR MECHANISMS IN GENERAL inlet; coin actuation; others TUS CHARACTERISED BY THE APPLICATION ensing; metering; hiring ETE BANKING SYSTEMS S NOT PECULIAR TO SPECIAL KINDS OR TYPES OF APPL		
1/00	Coin inlet arrangements; Coins specially adapted to operate coin-freed mechanisms [1, 2006.01]	7/00	Mechanisms actuated by objects other than coins to free or to actuate vending, hiring, coin or paper
1/02	• Coin slots [1, 2006.01]		currency dispensing or refunding apparatus [1, 2, 2006.01]
1/04	• Coin chutes [1, 2006.01]	7/02	
1/06	 Coins specially adapted to operate coin-freed mechanisms [1, 2006.01] 		by keys or other credit registering devices [1, 2, 2006.01] by a second support [1, 2006.01]
F /00	Caira antendad manhamisman Intendades [1, 2000 01]	7/04	• by paper currency [1, 2006.01]
5/00	Coin-actuated mechanisms; Interlocks [1, 2006.01]	7/06	• by returnable containers, e.g. bottles [1, 2006.01]
5/02	• actuated mechanically by coins, e.g. by a single	7/08	• by coded identity card or credit card [2, 2006.01]
F /O.4	coin [1, 2006.01]	7/10	 together with a coded signal [2, 2006.01]
5/04	 wherein two or more coins of the same denomination are required for each 	7/12	• • Card verification [5, 2006.01]
5/06	 transaction [1, 2006.01] wherein two or more coins of different denominations are required for each transaction [1, 2006.01] 	9/00	Details other than those peculiar to special kinds or types of apparatus (coin inlet arrangements G07F 1/00; coin-actuated mechanisms, interlocks G07F 5/00) [1, 2006.01]
5/08	 wherein the use of two or more coins or an equivalent single coin is optional for each transaction; wherein the use of two or more coins or an alternative equivalent combination of coins 	9/02	• Devices for alarm or indication, e.g. when empty; Advertising arrangements in coin-freed apparatus (alarms or warning devices indicating the interruption of flow to be metered G07F 15/10) [1, 2006.01]
5/10	is optional for each transaction [1, 2006.01]actuated electrically by the coin, e.g. by a single	9/04	 Means for returning surplus or unused coins [1, 2006.01]
	coin [1, 2006.01]	9/06	 Coin boxes [1, 2006.01]
5/12	 wherein two or more coins of the same 	9/08	• Counting total of coins inserted [1, 2006.01]
	denomination are required for each transaction [1, 2006.01]	9/10	• Casings, e.g. with means for heating or cooling [1, 2006.01]
5/14	 wherein two or more coins of different denominations are required for each transaction [1, 2006.01] 	11/00	Coin-freed apparatus for dispensing, or the like, discrete articles [1, 2006.01]
5/16	 wherein the use of two or more coins or an 	11/02	 from non-movable magazines [1, 2006.01]
	equivalent single coin is optional for each transaction; wherein the use of two or more coins	11/04	 in which magazines the articles are stored one vertically above the other [1, 2006.01]
	or an alternative equivalent combination of coins is optional for each transaction [1, 2006.01]	11/06	• • • supported individually on pivotally-mounted flaps or shelves [1, 2006.01]
5/18	 specially adapted for controlling several coin-freed apparatus from one place [1, 2006.01] 	11/08	• • • arranged in two columns in staggered relationship [1, 2006.01]
5/20	 specially adapted for registering coins as credit, e.g. mechanically actuated [1, 2006.01] 	11/10	• • • two or more magazines having a common delivery chute [1, 2006.01]
5/22	• • electrically actuated [1, 2006.01]	11/12	• • • with means for automatically changing to
5/24	 with change-giving [1, 2006.01] 	11/1 =	reserve stacks [1, 2006.01]
5/26	 Interlocks, e.g. for locking the doors of compartments other than that to be used [1, 2006.01] 	11/14	• • • with means for raising the stack of articles to permit delivery of the topmost [1, 2006.01]
		11/16	• • • Delivery means [1, 2006.01]
		11/18	• • • • Recessed drawers [1, 2006.01]
		11/10	• • • • Pushers actuated directly by
		11/20	1 ushers actuated unrectly by

hand [1, 2006.01]

11/22	 • • • Pushers actuated indirectly by hand, e.g. through cranks or levers [1, 2006.01] 	15/00	Coin-freed apparatus with meter-controlled dispensing of liquid, gas, or electricity [1, 2006.01]
11/24	• • • Rotary or oscillatory members [1, 2006.01]	15/02	• in which the quantity mechanism is set forward by
11/26	• • • Endless bands [1, 2006.01]		hand after insertion of a coin [1, 2006.01]
11/28	• in which the magazines are inclined [1, 2006.01]	15/04	 in which the quantity mechanism is set forward
11/30	• • • two or more magazines having independent delivery [1, 2006.01]	15/06	 automatically by the insertion of a coin [1, 2006.01] with means for prepaying basic charges, e.g. rent for
11/32	• • • two or more magazines having a common	15/08	meters [1, 2006.01] • with means for varying the tariff or changing the
11/34	delivery chute [1, 2006.01]in which the magazines are of zig-zag	15/00	price [1, 2006.01]
11/36	form [1, 2006.01]	15/10	 with alarm or warning devices, e.g. indicating the interrupting of the supply [1, 2006.01]
11/30	 in which the magazines are of helical or spiral form [1, 2006.01] 	15/12	• in which metering is on a time basis [1, 2006.01]
11/38	• • in which the magazines are horizontal [1, 2006.01]	4	
11/40	 • the articles being delivered by hand-operated means [1, 2006.01] 	17/00	Coin-freed apparatus for hiring articles; Coin-freed facilities or services [1, 2006.01]
11/42	• • • the articles being delivered by motor-driven	17/02	 for optical devices, e.g. telescopes [1, 2006.01]
	means [1, 2006.01]	17/04	 for anthropometrical measurements such as weight, height, strength [1, 2006.01]
11/44	 in which magazines the articles are stored in bulk [1, 2006.01] 	17/06	• for inflating-pumps [1, 2006.01]
11 / 46		17/08	 for seats or footstools [1, 2006.01]
11/46	 from movable storage containers or supports [1, 2006.01] 	17/10	 for means for safe-keeping of property, left
11/48	 the storage containers or supports, e.g. magazine, being pivotally mounted [1, 2006.01] 		temporarily, e.g. by fastening the property [1, 2006.01]
11/50	 the storage containers or supports being rotatably 	17/12	• • comprising lockable containers, e.g. for accepting clothes to be cleaned [1, 2006.01]
11/52	mounted [1, 2006.01] • • about horizontal axes [1, 2006.01]	17/14	 for fastenings for doors (of containers for safe-
11/54	• • • about vertical axes [1, 2006.01]		keeping G07F 17/12); for turnstiles [1, 2006.01]
11/56	• • • the storage containers or supports both rotating and moving axially [1, 2006.01]	17/16	 for devices exhibiting advertisements, announcements, pictures, or the like [1, 2006.01]
11/58	 the articles being supported on or by endless belts 	17/18	 for washing or drying persons [1, 2006.01]
	or like conveyors [1, 2006.01]	17/20	 for washing or drying articles, e.g. clothes, motor cars [1, 2006.01]
11/60	• the storage containers or supports being rectilinearly movable [1, 2006.01]	17/22	 for cleaning and polishing boots or shoes [1, 2006.01]
11/62	• in which the articles are stored in compartments in	17/24	• for parking meters [1, 2006.01]
11/6/	fixed receptacles [1, 2006.01] • in which the articles are individually suspended from	17/26	 for printing, stamping, franking, typing, or
11/64	stationary supports [1, 2006.01]		teleprinting apparatus (ticket printing or like apparatus G07F 17/42) [1, 2006.01]
11/66	• in which the articles are dispensed by cutting from a	17/28	• for radio apparatus [1, 2006.01]
11/60	mass [1, 2006.01]	17/30	• for musical instruments [1, 2006.01]
11/68	• in which the articles are torn or severed from strips or	17/32	• for games, toys, sports, or amusements [1, 2006.01]
11/70	sheets [1, 2006.01]in which the articles are formed in the apparatus from	17/34	 depending on the stopping of moving members, e.g. "fruit" machines [1, 2006.01]
	components, blanks, or material	17/36	Age, character, or fortune telling
11/72	constituents [1, 2006.01]Auxiliary equipments, e.g. for lighting cigars,		apparatus [1, 2006.01]
	opening bottles [1, 2006.01]	17/38	• • Ball games; Shooting apparatus [1, 2006.01]
13/00	Coin-freed apparatus for controlling dispensing of	17/40	 for devices for accepting orders, advertisements, or the like [1, 2006.01]
	fluids, semiliquids or granular material from reservoirs [1, 2006.01]	17/42	• for ticket printing or like apparatus [1, 2006.01]
13/02	• by volume [1, 2006.01]	19/00	Complete banking systems; Coded card-freed
13/04	• by weight [1, 2006.01]	13/00	arrangements adapted for dispensing or receiving
13/04	 with selective dispensing of different fluids or 		monies or the like and posting such transactions to
	materials or mixtures thereof [1, 2006.01]		existing accounts, e.g. automatic teller machines (data processing equipment for bank accounting
13/08	• in the form of a spray [1, 2006.01]		G06Q 40/02) [5, 2006.01]
13/10	 with associated dispensing of containers, e.g. cups or other articles [1, 2006.01] 		- /

G07G REGISTERING THE RECEIPT OF CASH, VALUABLES, OR TOKENS (digital computing in general G06C, G06F) [4]

1/00 Cash registers (alarm indicators G07G 3/00) [1, 2006.01]
 1/01 Details for indicating (displaying information in
 1/08 • with provision for the noting of the money to be paid [4, 2006.01]
 • with rotating drums which display the money

• Details for indicating (displaying information in general G09F, G09G) [4, 2006.01] • with rotating drums which display the money entered [4, 2006.01]

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- 1/10 mechanically operated **[4, 2006.01]**
- 1/12 electronically operated (digital data processing aspects G06Q 20/00) [4, 2006.01]
- 1/14 Systems including one or more distant stations cooperating with a central processing unit (data transmission in general H04L; telemetry systems for selectively calling a substation from a main station H04Q 9/00) [4, 2006.01]
- 3/00 Alarm indicators, e.g. bells [1, 2006.01]
- **Receipt-giving machines** (cash registers giving receipts G07G 1/00) **[1, 2006.01]**