

## SECTION G — PHYSICS

### G09 EDUCATING; CRYPTOGRAPHY; DISPLAY; ADVERTISING; SEALS

#### G09B EDUCATIONAL OR DEMONSTRATION APPLIANCES; APPLIANCES FOR TEACHING, OR COMMUNICATING WITH, THE BLIND, DEAF OR MUTE; MODELS; PLANETARIA; GLOBES; MAPS; DIAGRAMS

##### Note(s)

- This subclass covers :
  - simulators regarded as teaching or training devices, which is the case if they give perceptible sensations having a likeness to the sensations a student would experience in reality in response to actions taken by him;
  - models of buildings, installations, or the like.
- This subclass does not cover :
  - simulators which merely demonstrate or illustrate the function of an apparatus or of a system by means involving computing, and therefore cannot be regarded as teaching or training devices. Such simulators are covered by class G06, if no provision exists elsewhere;
  - components of simulators, if identical with real devices or machines, which are covered by the relevant subclasses for these devices or machines and not by class G09.

##### Subclass index

##### TEACHING EQUIPMENT IN GENERAL

General principle of operation

manual or mechanical.....1/00, 3/00

electrical.....5/00, 7/00

operating by question and answer.....3/00, 7/00

Simulators.....9/00

##### TEACHING EQUIPMENT FOR SPECIFIC PURPOSES

For writing, shorthand, drawing, painting; for typing.....11/00, 13/00

For music; for reading.....15/00, 17/00

Models for scientific or technical training.....23/00, 25/00

Planetaria, globes; maps, diagrams.....27/00, 29/00

Other teaching equipment.....19/00

TEACHING, AND COMMUNICATING WITH, THE BLIND OR DEAF.....21/00

**1/00 Manually- or mechanically-operated educational appliances using elements forming or bearing symbols, signs, pictures, or the like which are arranged or adapted to be arranged in one or more particular ways**

1/02 • and having a support carrying or adapted to carry the elements

1/04 • • the elements each bearing a single symbol or a single combination of symbols

1/06 • • • and being attachable to, or mounted on, the support

1/08 • • • • by means of magnets

1/10 • • • • by means of pins and holes

1/12 • • • • by means of ring-like securing elements

1/14 • • • • the elements being slidably mounted on the support

1/16 • • the elements each bearing a plurality of different symbols, signs, or combinations of symbols and signs, only one symbol, sign, or combination thereof, of each element to be used at a time

1/18 • • • the elements being rotatable

1/20 • • • • and bearing the symbols on a surface parallel to the axis of rotation

1/22 • • • • and bearing the symbols on a surface perpendicular to the axis of rotation

1/24 • • • the elements being in flexible-strip form, e.g. endless bands

1/26 • • • the elements being arranged in fan form

1/28 • • • the elements being slidable

1/30 • • wherein the elements are adapted to be arranged in co-operation with the support to form symbols

1/32 • comprising elements to be used without a special support

1/34 • • the elements to be placed loosely in adjacent relationship

1/36 • • the elements being connectible by corresponding projections and recesses

1/38 • • the elements being connectible magnetically

1/40 • • to form symbols or signs by appropriate arrangement

**3/00 Manually- or mechanically-operated teaching appliances working with questions and answers**

## G09B

- 3/02 • of the type wherein the student is expected to construct an answer to the question which is presented or wherein the machine gives an answer to the question presented by the student
- 3/04 • • of chart form
- 3/06 • of the multiple-choice answer type, i.e. where a given question is provided with a series of answers and a choice has to be made
- 3/08 • • of chart form
- 3/10 • • wherein one set of answers is common to a plurality of questions
- 3/12 • • • of chart form

### 5/00 Electrically-operated educational appliances [2]

#### Note(s)

Group G09B 5/08 takes precedence over groups G09B 5/02-G09B 5/06.

- 5/02 • with visual presentation of the material to be studied, e.g. using film strip
- 5/04 • with audible presentation of the material to be studied
- 5/06 • with both visual and audible presentation of the material to be studied
- 5/08 • providing for individual presentation of information to a plurality of student stations [2]
- 5/10 • • all student stations being capable of presenting the same information simultaneously (G09B 5/14 takes precedence) [2]
- 5/12 • • different stations being capable of presenting different information simultaneously (G09B 5/14 takes precedence) [2]
- 5/14 • • with provision for individual teacher-student communication [2]

### 7/00 Electrically-operated teaching apparatus or devices working with questions and answers

- 7/02 • of the type wherein the student is expected to construct an answer to the question which is presented or wherein the machine gives an answer to the question presented by the student
- 7/04 • • characterised by modifying the teaching programme in response to a wrong answer, e.g. repeating the question, supplying a further explanation
- 7/06 • of the multiple-choice answer type, i.e. where a given question is provided with a series of answers and a choice has to be made from the answers
- 7/07 • • providing for individual presentation of questions to a plurality of student stations [2]
- 7/073 • • • all student stations being capable of presenting the same questions simultaneously [2]
- 7/077 • • • different stations being capable of presenting different questions simultaneously [2]
- 7/08 • • characterised by modifying the teaching programme in response to a wrong answer, e.g. repeating the question, supplying further information
- 7/10 • • wherein a set of answers is common to a plurality of questions
- 7/12 • • • characterised by modifying the teaching programme in response to a wrong answer, e.g. repeating the question, supplying further information

### 9/00 Simulators for teaching or training purposes

- 9/02 • for teaching control of vehicles or other craft
- 9/04 • • for teaching control of land vehicles

- 9/042 • • • providing simulation in a real vehicle (G09B 9/052, G09B 9/058 take precedence) [5]
- 9/048 • • • a model being viewed and manoeuvred from a remote point (G09B 9/052, G09B 9/058 take precedence) [5]
- 9/05 • • • the view from a vehicle being simulated (G09B 9/052, G09B 9/058 take precedence) [5]
- 9/052 • • • characterised by provision for recording or measuring trainee's performance [5]
- 9/058 • • • for teaching control of cycles or motorcycles [5]
- 9/06 • • for teaching control of ships, boats, or other waterborne vehicles [2]
- 9/08 • • for teaching control of aircraft, e.g. Link trainer
- 9/10 • • • with simulated flight- or engine-generated force being applied to aircraft occupant (G09B 9/28 takes precedence) [5]
- 9/12 • • • Motion systems for aircraft simulators [5]
- 9/14 • • • • controlled by fluid actuated piston or cylinder ram [5]
- 9/16 • • • Ambient or aircraft conditions simulated or indicated by instrument or alarm [5]
- 9/18 • • • • Condition of engine or fuel supply [5]
- 9/20 • • • • Simulation or indication of aircraft attitude [5]
- 9/22 • • • including aircraft sound simulation [5]
- 9/24 • • • including display or recording of simulated flight path [5]
- 9/26 • • • Simulation of radio-navigation [5]
- 9/28 • • • Simulation of stick forces or the like [5]
- 9/30 • • • Simulation of view from aircraft [5]
- 9/32 • • • • by projected image (G09B 9/36 takes precedence) [5]
- 9/34 • • • • by cathode-ray screen display (G09B 9/36 takes precedence) [5]
- 9/36 • • • • Simulation of night or reduced visibility flight [5]
- 9/38 • • • • • Simulation of runway outlining or approach lights [5]
- 9/40 • • • Simulation of airborne radar [5]
- 9/42 • • • Aircraft, aircraft simulator, or means connected thereto, travelling on the ground or water during simulated flight training [5]
- 9/44 • • • providing simulation in a real aircraft flying through the atmosphere without restriction of its path [5]
- 9/46 • • • the aircraft being a helicopter [5]

#### Note(s)

When classifying in group G09B 9/46, classification is also made in other appropriate subgroups of group G09B 9/08, if of interest.

- 9/48 • • • a model being viewed and manoeuvred from a remote point [5]
- 9/50 • • • Automatically directing the course of the aircraft [5]
- 9/52 • • for teaching control of an outer space vehicle [5]
- 9/54 • Simulation of radar (G09B 9/40 takes precedence) [5]
- 9/56 • Simulation of sonar [5]

### 11/00 Teaching hand-writing, shorthand, drawing, or painting

- 11/02 • Finger, hand, or arm supporting devices
- 11/04 • Guide sheets or plates; Tracing charts
- 11/06 • Devices involving the use of transparent or translucent tracing material, e.g. copy books
- 11/08 • Teaching shorthand

11/10	• Teaching painting	23/04	• • for geometry, trigonometry, projection, or perspective (for surveying G09B 25/06)
<b>13/00</b>	<b>Teaching typing</b>	23/06	• for physics
13/02	• Dummy practice keyboard apparatus	23/08	• • for statics or dynamics
13/04	• Devices used in association with a real typewriter, teleprinter, or the like	23/10	• • • of solid bodies
<b>15/00</b>	<b>Teaching music</b>	23/12	• • • of liquids or gases
15/02	• Boards or like means for providing an indication of notes	23/14	• • for acoustics
15/04	• • with sound-emitters	23/16	• • for science of heat
15/06	• Devices for exercising or strengthening fingers or arms; Devices for holding fingers or arms in a proper position for playing	23/18	• • for electricity or magnetism
15/08	• Practice keyboards	23/20	• • for atomic physics or nucleonics
<b>17/00</b>	<b>Teaching reading</b>	23/22	• • for optics
17/02	• Line indicators or other guides or masks	23/24	• for chemistry
17/04	• for increasing the rate of reading; Reading rate control	23/26	• for molecular structures; for crystallography
<b>19/00</b>	<b>Teaching not covered by other main groups of this subclass</b> (teaching or practice apparatus for gun-aiming or gun-laying F41G 3/26)	23/28	• for medicine
19/02	• Counting; Calculating	23/30	• • Anatomical models (dental articulators A61C 11/00)
19/04	• Speaking (with audible presentation of the material to be studied G09B 5/04)	23/32	• • • with moving parts
19/06	• Foreign languages (with audible presentation of the material to be studied G09B 5/04)	23/34	• • • with removable parts
19/08	• • Printed or written appliances, e.g. textbooks, bilingual letter assemblies, charts	23/36	• for zoology
19/10	• Modelling	23/38	• for botany
19/12	• Clock-reading	23/40	• for geology
19/14	• Traffic procedures, e.g. traffic regulations	<b>25/00</b>	<b>Models for purposes not provided for in group G09B 23/00, e.g. full-sized devices for demonstration purposes</b> (model vehicles, tracks therefor, models in the nature of toys A63H)
19/16	• Control of vehicles or other craft	25/02	• of industrial processes; of machinery
19/18	• Book-keeping or economics	25/04	• of buildings
19/20	• Needlework	25/06	• for surveying; for geography, e.g. relief models (globes G09B 27/00; maps G09B 29/00)
19/22	• Games, e.g. card games	25/08	• of scenic effects, e.g. trees, rocks, water surfaces (for stage purposes A63J 1/00)
19/24	• Use of tools	<b>27/00</b>	<b>Planetaria; Globes</b>
19/26	• Dot-and-dash telegraph codes [2]	27/02	• Tellurions; Orreries
<b>21/00</b>	<b>Teaching, or communicating with, the blind, deaf or mute</b> (audible presentation of material to be studied G09B 5/04) [2, 4]	27/04	• Celestial maps
21/02	• Devices for Braille writing	27/06	• Celestial globes
21/04	• Devices for conversing with the deaf-blind	27/08	• Globes (celestial globes G09B 27/06)
21/06	• Devices for teaching lip-reading	<b>29/00</b>	<b>Maps (celestial maps G09B 27/04); Plans; Charts; Diagrams, e.g. route diagrams</b>
<b>23/00</b>	<b>Models for scientific, medical, or mathematical purposes, e.g. full-sized device for demonstration purposes</b> (in the nature of toys A63H)	29/02	• sectional
23/02	• for mathematics	29/04	• • the sections being arranged in the form of a foldable sheet or sheets
		29/06	• of belt form, e.g. endless belt
		29/08	• Hanging maps or the like
		29/10	• Map spot or co-ordinate position indicators; Map-reading aids
		29/12	• Relief maps
		29/14	• Local-time charts