# 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)

- 1. This subclass <u>covers</u>:
  - 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.
- 2. This subclass <u>does not cover</u>:
  - 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
 11/00, 13/00

 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	1/20 1/22 1/24	<ul> <li>and bearing the symbols on a surface parallel to the axis of rotation</li> <li>and bearing the symbols on a surface perpendicular to the axis of rotation</li> <li>the elements being in flexible-strip form, e.g.</li> </ul>
1/02	<ul> <li>and having a support carrying or adapted to carry the elements</li> </ul>	1/24	<ul> <li>endless bands</li> <li>the elements being arranged in fan form</li> </ul>
1/04	<ul> <li>the elements each bearing a single symbol or a single combination of symbols</li> </ul>	1/20 1/28 1/30	<ul> <li>the elements being slidable</li> <li>wherein the elements are adapted to be arranged in</li> </ul>
1/06	• • • and being attachable to, or mounted on, the support	1/30	<ul> <li>comprising elements to be used without a special</li> </ul>
1/08 1/10	<ul> <li>• by means of magnets</li> <li>• by means of pins and holes</li> </ul>	1/34	<ul><li>support</li><li>the elements to be placed loosely in adjacent</li></ul>
1/12 1/14	<ul> <li>• by means of ring-like securing elements</li> <li>• • • the elements being slidably mounted on the support</li> </ul>	1/36	<ul> <li>relationship</li> <li>the elements being connectible by corresponding projections and recesses</li> </ul>
1/16	<ul> <li>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</li> </ul>	1/38 1/40	<ul> <li>the elements being connectible magnetically</li> <li>to form symbols or signs by appropriate arrangement</li> </ul>
1/18	• • • the elements being rotatable	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	•	<ul> <li>of chart form</li> </ul>
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	•	<ul> <li>wherein one set of answers is common to a plurality of questions</li> </ul>
3/12	•	• • of chart form
5/00	El	ectrically-operated educational appliances [2]
	N	<u>ote(s)</u>
	G	roup G09B 5/08 takes precedence over groups 09B 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 <b>[2]</b>
5/10	•	<ul> <li>all student stations being capable of presenting the same information simultaneously (G09B 5/14 takes precedence) [2]</li> </ul>
5/12	•	<ul> <li>different stations being capable of presenting different information simultaneously (G09B 5/14 takes precedence) [2]</li> </ul>
5/14	•	• with provision for individual teacher-student communication <b>[2]</b>
7/00	El	ectrically-operated teaching apparatus or devices orking with questions and answers
7/02	•	of the type wherein the student is expected to construct an answer to the question which is
	•	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
7/02	•	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
	•	<ul> <li>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</li> <li>characterised by modifying the teaching programme in response to a wrong answer, e.g. repeating the question, supplying a further</li> </ul>
7/04	•	<ul> <li>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</li> <li>characterised by modifying the teaching programme in response to a wrong answer, e.g. repeating the question, supplying a further explanation</li> <li>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</li> <li>providing for individual presentation of questions</li> </ul>
7/04	•	<ul> <li>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</li> <li>characterised by modifying the teaching programme in response to a wrong answer, e.g. repeating the question, supplying a further explanation</li> <li>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</li> <li>providing for individual presentation of questions to a plurality of student stations [2]</li> <li>all student stations being capable of presenting</li> </ul>
7/04 7/06 7/07	•	<ul> <li>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</li> <li>characterised by modifying the teaching programme in response to a wrong answer, e.g. repeating the question, supplying a further explanation</li> <li>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</li> <li>providing for individual presentation of questions to a plurality of student stations [2]</li> <li>all student stations being capable of presenting the same questions simultaneously [2]</li> <li>different stations being capable of presenting</li> </ul>
7/04 7/06 7/07 7/073	•	<ul> <li>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</li> <li>characterised by modifying the teaching programme in response to a wrong answer, e.g. repeating the question, supplying a further explanation</li> <li>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</li> <li>providing for individual presentation of questions to a plurality of student stations [2]</li> <li>all student stations being capable of presenting the same questions simultaneously [2]</li> <li>different questions simultaneously [2]</li> <li>characterised by modifying the teaching programme in response to a wrong answer, e.g.</li> </ul>
7/04 7/06 7/07 7/073 7/077	•	<ul> <li>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</li> <li>characterised by modifying the teaching programme in response to a wrong answer, e.g. repeating the question, supplying a further explanation</li> <li>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</li> <li>providing for individual presentation of questions to a plurality of student stations [2]</li> <li>all student stations being capable of presenting the same questions simultaneously [2]</li> <li>different questions simultaneously [2]</li> <li>characterised by modifying the teaching</li> </ul>
7/04 7/06 7/07 7/073 7/077	•	<ul> <li>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</li> <li>characterised by modifying the teaching programme in response to a wrong answer, e.g. repeating the question, supplying a further explanation</li> <li>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</li> <li>providing for individual presentation of questions to a plurality of student stations [2]</li> <li>all student stations being capable of presenting the same questions simultaneously [2]</li> <li>characterised by modifying the teaching programme in response to a wrong answer, e.g. repeating the question, supplying further information</li> <li>wherein a set of answers is common to a plurality of questions</li> </ul>
7/04 7/06 7/07 7/073 7/077 7/08	•	<ul> <li>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</li> <li>characterised by modifying the teaching programme in response to a wrong answer, e.g. repeating the question, supplying a further explanation</li> <li>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</li> <li>providing for individual presentation of questions to a plurality of student stations [2]</li> <li>all student stations being capable of presenting different questions simultaneously [2]</li> <li>characterised by modifying the teaching programme in response to a wrong answer, e.g. repeating the question, supplying further information</li> <li>wherein a set of answers is common to a plurality</li> </ul>
7/04 7/06 7/07 7/073 7/077 7/08 7/10 7/12	• • • • •	<ul> <li>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</li> <li>characterised by modifying the teaching programme in response to a wrong answer, e.g. repeating the question, supplying a further explanation</li> <li>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</li> <li>providing for individual presentation of questions to a plurality of student stations [2]</li> <li>all student stations being capable of presenting different questions simultaneously [2]</li> <li>characterised by modifying the teaching programme in response to a wrong answer, e.g. repeating the question, supplying further information</li> <li>wherein a set of answers is common to a plurality of questions</li> <li>characterised by modifying the teaching programme in response to a wrong answer, e.g. repeating the question, supplying further information</li> </ul>
7/04 7/06 7/07 7/073 7/077 7/08 7/10	• • • • •	<ul> <li>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</li> <li>characterised by modifying the teaching programme in response to a wrong answer, e.g. repeating the question, supplying a further explanation</li> <li>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</li> <li>providing for individual presentation of questions to a plurality of student stations [2]</li> <li>all student stations being capable of presenting different questions simultaneously [2]</li> <li>characterised by modifying the teaching programme in response to a wrong answer, e.g. repeating the question, supplying further information</li> <li>wherein a set of answers is common to a plurality of questions</li> <li>characterised by modifying the teaching programme in response to a wrong answer, e.g. repeating the question, supplying further information</li> </ul>

	9/042	•	•	•	providing simulation in a real vehicle (G09B 9/052, G09B 9/058 take precedence) <b>[5]</b>
	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) <b>[5]</b>
	9/052	•	•	•	characterised by provision for recording or measuring trainee's performance <b>[5]</b>
	0/050				
	9/058			•	for teaching control of cycles or motocycles <b>[5]</b>
	9/06	•	•		r teaching control of ships, boats, or other aterborne vehicles <b>[2]</b>
	0/00				
	9/08	•	•	10	r 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) <b>[5]</b>
	9/12				Motion systems for aircraft simulators <b>[5]</b>
	9/12 9/14	•	•	•	<ul> <li>controlled by fluid actuated piston or</li> </ul>
					cylinder ram [5]
	9/16	•	•	•	Ambient or aircraft conditions simulated or indicated by instrument or alarm <b>[5]</b>
	9/18	•	•	•	<ul> <li>Condition of engine or fuel supply [5]</li> </ul>
	9/20	•	•	•	<ul> <li>Simulation or indication of aircraft attitude [5]</li> </ul>
	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	•	•	•	<ul> <li>by cathode-ray screen display (G09B 9/36 takes precedence) [5]</li> </ul>
	9/36				<ul> <li>Simulation of night or reduced visibility</li> </ul>
	5750				flight [5]
	9/38	•	•	•	Simulation of runway outlining or
					approach lights <b>[5]</b>
	9/40	•	•	•	Simulation of airborne radar [5]
	9/42	•	•	•	Aircraft, aircraft simulator, or means connected
					thereto, travelling on the ground or water
	0/44				during simulated flight training <b>[5]</b> providing simulation in a real aircraft flying
	9/44	•	•	•	through the atmosphere without restriction of
					its path [5]
	9/46	•	•	•	the aircraft being a helicopter <b>[5]</b>
	2, 10				
		N	ote	e(s)	1
					classifying in group G09B 9/46, classification is
					de in other appropriate subgroups of group
		G	09	Βĉ	0/08, if of interest.
	9/48	•	•	•	a model being viewed and manoeuvred from a remote point <b>[5]</b>
	9/50	•	•	•	Automatically directing the course of the aircraft [5]
	9/52	•	•	fo	r teaching control of an outer space vehicle [5]
	9/54	•	Si		llation of radar (G09B 9/40 takes precedence) [5]
	9/56	•			llation of sonar [5]
-	11/00				ng hand-writing, shorthand, drawing, or
	14 /05	pa		tin	0
	11/02	•			er, hand, or arm supporting devices
	11/04	•			e sheets or plates; Tracing charts
	11/06	•			ces involving the use of transparent or lucent tracing material, e.g. copy books
	11/08	•			hing shorthand
			- •		

11/10	Teaching painting	23/04	• • for geometry, trigonometry, projection, or
13/00	Teaching typing	23/06	<ul><li>perspective (for surveying G09B 25/06)</li><li>for physics</li></ul>
13/02	Dummy practice keyboard apparatus	23/08	<ul> <li>for physics</li> <li>for statics or dynamics</li> </ul>
13/04	• Devices used in association with a real typewriter,	23/00	<ul> <li>• of solid bodies</li> </ul>
	teleprinter, or the like	23/10	<ul> <li>• of liquids or gases</li> </ul>
		23/12	<ul> <li>for acoustics</li> </ul>
15/00	Teaching music	23/14	<ul> <li>for science of heat</li> </ul>
15/02	• Boards or like means for providing an indication of	23/18	<ul> <li>for electricity or magnetism</li> </ul>
15/04	notes	23/20	<ul> <li>for atomic physics or nucleonics</li> </ul>
15/04	• • with sound-emitters	23/20	<ul> <li>for optics</li> </ul>
15/06	Devices for exercising or strengthening fingers or     arms: Devices for holding fingers or arms in a proper	23/24	for chemistry
	arms; Devices for holding fingers or arms in a proper position for playing	23/24	<ul> <li>for molecular structures; for crystallography</li> </ul>
15/08	Practice keyboards	23/28	<ul> <li>for medicine</li> </ul>
15/00	1 factice Reyboards	23/20	<ul> <li>Anatomical models (dental articulators</li> </ul>
17/00	Teaching reading	23/30	A61C 11/00)
17/02	Line indicators or other guides or masks	23/32	<ul> <li>• • with moving parts</li> </ul>
17/04	<ul> <li>for increasing the rate of reading; Reading rate</li> </ul>	23/34	<ul> <li>• • with removable parts</li> </ul>
	control	23/36	<ul> <li>for zoology</li> </ul>
		23/38	<ul> <li>for botany</li> </ul>
19/00	Teaching not covered by other main groups of this	23/40	<ul> <li>for geology</li> </ul>
	<b>subclass</b> (teaching or practice apparatus for gun-aiming	23/40	101 geology
10/02	or gun-laying F41G 3/26)	25/00	Models for purposes not provided for in group
19/02	Counting; Calculating		G09B 23/00, e.g. full-sized devices for demonstration
19/04	• Speaking (with audible presentation of the material to be studied G09B 5/04)		purposes (model vehicles, tracks therefor, models in the
10/06			nature of toys A63H)
19/06	• Foreign languages (with audible presentation of the material to be studied G09B 5/04)	25/02	<ul> <li>of industrial processes; of machinery</li> </ul>
19/08	<ul> <li>Printed or written appliances, e.g. textbooks,</li> </ul>	25/04	<ul> <li>of buildings</li> </ul>
15/00	bilingual letter assemblies, charts	25/06	<ul> <li>for surveying; for geography, e.g. relief models</li> </ul>
19/10	Modelling		(globes G09B 27/00; maps G09B 29/00)
19/12	Clock-reading	25/08	• of scenic effects, e.g. trees, rocks, water surfaces (for
19/14	Traffic procedures, e.g. traffic regulations		stage purposes A63J 1/00)
19/16	<ul> <li>Control of vehicles or other craft</li> </ul>	27/00	Planetaria; Globes
19/18	Book-keeping or economics	27/02	Tellurions; Orreries
19/20	Needlework	27/04	Celestial maps
19/22	Games, e.g. card games	27/06	Celestial globes
19/24	<ul> <li>Use of tools</li> </ul>	27/08	<ul> <li>Globes (celestial globes G09B 27/06)</li> </ul>
19/24	<ul> <li>Dot-and-dash telegraph codes [2]</li> </ul>	27700	
10720	Dot und dash telegraph codes [=]	29/00	Maps (celestial maps G09B 27/04); Plans; Charts;
21/00	Teaching, or communicating with, the blind, deaf or		Diagrams, e.g. route diagrams
	mute (audible presentation of material to be studied	29/02	• sectional
	G09B 5/04) <b>[2, 4]</b>	29/04	<ul> <li>the sections being arranged in the form of a</li> </ul>
21/02	<ul> <li>Devices for Braille writing</li> </ul>		foldable sheet or sheets
21/04	<ul> <li>Devices for conversing with the deaf-blind</li> </ul>	29/06	<ul> <li>of belt form, e.g. endless belt</li> </ul>
21/06	<ul> <li>Devices for teaching lip-reading</li> </ul>	29/08	<ul> <li>Hanging maps or the like</li> </ul>
77/00	Madala fay acientifia madia-1	29/10	<ul> <li>Map spot or co-ordinate position indicators; Map-</li> </ul>
23/00	Models for scientific, medical, or mathematical purposes, e.g. full-sized device for demonstration		reading aids
	<b>purposes</b> , e.g. fun-sized device for demonstration <b>purposes</b> (in the nature of toys A63H)	29/12	Relief maps
23/02	<ul> <li>for mathematics</li> </ul>	29/14	Local-time charts
23/02	for mathematics		
G09C	CIPHERING OR DECIPHERING APPARATUS FOR	CRYPTOGE	RAPHIC OR OTHER PURPOSES INVOLVING THE

NEED FOR SECRECY

Apparatus or methods whereby a given sequence of

signs, e.g. an intelligible text, is transformed into an

unintelligible sequence of signs by transposing the

signs or groups of signs or by replacing them by

others according to a predetermined system

(cryptographic typewriters G09C 3/00)

• by using a ciphering code in chart form

 1/04 • with sign carriers or indicators moved relative to one another to positions determined by a permutation code or key, so as to indicate the appropriate corresponding clear or ciphered text

 1/06 • wherein elements corresponding to the signs making up the clear text are operatively connected with elements corresponding to the signs making up the ciphered text, the connections, during operation of the apparatus, being automatically and continuously permuted by a coding or key member

1/00

1/02

1/08 1/10 1/12 1/14	<ul> <li>the connections being mechanical</li> <li>the connections being electrical</li> <li>comprising contact-bearing permutation discs</li> <li>involving removable or interchangeable coding numbers, e.g. master tapes, punched cards</li> </ul>	3/04 3/06 3/08	<ul> <li>wherein the operative connections between the keys and the type-bars are automatically and continuously permuted, during operation, by a coding or key member</li> <li>the connections being mechanical</li> <li>the connections being electrical</li> </ul>
3/00	Typewriters for ciphering or deciphering cryptographic text	3/10	<ul> <li>involving removable or interchangeable coding members, e.g. master tapes, punched cards</li> </ul>
3/02	<ul> <li>with auxiliary keys or keyboards acting on the original keys or keyboards</li> </ul>	5/00	Ciphering or deciphering apparatus or methods not provided for in other groups of this subclass, e.g. involving the concealment or deformation of graphic data such as designs, written or printed messages
G09D	RAILWAY OR LIKE TIME OR FARE TABLES; PERPI	ETUAL CAL	ENDARS

1/00	Railway or like time or fare tables; Indicating or	3/02 • with interchangeable members bearing the indicia
	<b>reading aids therefor</b> (incorporating maps or route diagrams, e.g. railway routing charts G09B 29/00)	3/04 • wherein members bearing the indicia are movably mounted in the calendar
3/00	Perpetual calendars (printed calendar blocks	3/06 • • with rotatable members 3/08 • • • of disc form
	B42D 5/04; clockwork-driven perpetual calendars G04B 19/24)	3/10 • • with members in band form
	,	3/12 • electrically operated

#### G09F DISPLAYING; ADVERTISING; SIGNS; LABELS OR NAME-PLATES; SEALS

## <u>Note(s)</u>

1.	In this subclass, the following term is used with the meaning indicated:

- "sign" designates a mark or indication serving to make something recognisable, the information presented being non-varying, even if it is flashing; by way of example it covers, therefore, advertising hoardings, or luminous, or light reflecting, safety arrangements.
   Attention is drawn to the Notes following the titles of class B81 and subclass B81B relating to "micro-structural devices" and "micro-
- Attention is drawn to the Notes following the titles of class B81 and subclass B81B relating to "micro-structural devices" and "micro-structural systems".

## Subclass index

INFORMATION AND ADVERTISING	
Displaying samples	5/00
With fixed information:	
show-cards; labels or tags; signs, plates, characters	1/00, 3/00, 7/00
With variable information:	
by combination of elements; by movement of complete information	9/00, 11/00
Illuminated signs; luminous advertising	
Supports used for bill-posting and advertising: panels; banners; goods; others	15/00, 17/00, 23/00, 19/00
PROCESSES OF ADVERTISING	
Movable; audible; audio-visual; others	21/00, 25/00, 27/00, 19/00

1/00	Cardboard or like show-cards of foldable or flexible material	<ul> <li>3/03 • of security seals</li> <li>3/04 • to be fastened or secured by the material of the label</li> </ul>		f the label
1/02	Single substantially-flat cards     Falled as de	itself, e.g. by thermo-adhesion (by a separate adhesive layer G09F 3/10)		ite
1/04 1/06	<ul> <li>Folded cards</li> <li>to be erected in three dimensions (G09F 1/08 takes</li> </ul>	3/06 • by clamping action (by separate clamps	3/06	
1/00	precedence)	G09F 3/16)	5,00	
1/08	• wholly or partly imitating the form of an object, e.g. of the article to be advertised	3/08 • Fastening or securing by means not forming part of the material of the label itself	3/08	g part of
1/10	Supports or holders for show-cards	3/10 • • by an adhesive layer	3/10	
1/12	Frames therefor	3/12 • • by pins, staples, or the like	3/12	
1/14	• • in the form of legs	3/14 • • by strings, straps, chains, or wires	3/14	
	-	3/16 • • by clamps	3/16	
3/00	Labels, tag tickets, or similar identification or	3/18 • • Casings, frames, or enclosures for labels	3/18	5
3/02	<ul><li>indication means; Seals; Postage or like stamps</li><li>Forms or constructions</li></ul>	3/20 • • for adjustable, removable, or interchangeable labels	3/20	ingeable

5/00	Means for displaying samples	11/10	<ul> <li>Electric control therefor</li> </ul>
5/02	Portable sample cases	11/12	• the display elements being carried by endless belts,
5/04	• Cards of samples; Books of samples		chains, or the like
7/00	Signs, name or number plates, letters, numerals, or	11/14	<ul> <li>the elements being in the form of stiff flaps, boards, cards, or the like</li> </ul>
7700	symbols; Panels or boards (show-cards G09F 1/00;	11/15	<ul> <li>the elements being flexible sheets</li> </ul>
	indicating arrangements for variable information	11/15	<ul> <li>Electric control therefor</li> </ul>
	G09F 9/00, G09F 11/00; illuminated signs G09F 13/00;	11/18	<ul> <li>the display elements being carried by belts, chains, or</li> </ul>
	boards for notices or posters G09F 15/00)	11/10	the like, other than endless
7/02	<ul> <li>Signs, plates, panels, or boards using readily- detachable elements bearing or forming symbols</li> </ul>	11/20	• • the elements being in the form of stiff flaps, boards, cards, or the like
7/04	• • the elements being secured or adapted to be	11/21	<ul> <li>the elements being flexible sheets</li> </ul>
7/00	secured by magnetic means	11/22	Electric control therefor
7/06	<ul> <li>the elements being secured or adapted to be secured by means of pins and holes</li> </ul>	11/23	<ul> <li>the advertising or display material forming part of</li> </ul>
7/08	<ul> <li>the elements being secured or adapted to be</li> </ul>		rotating members, e.g. in the form of perforations,
//00	secured by means of grooves, rails, or slits		prints, or transparencies on a drum or disc
7/10	• • • and slidably mounted	11/235	Electric control therefor
7/12	• • the elements being secured or adapted to be	11/24	• the advertising or display material forming part of a
	secured by self-adhesion, moisture, suction, slow-		moving band, e.g. in the form of perforations, prints, or transparencies
	drying adhesive, or the like	11/26	<ul> <li>of an endless band</li> </ul>
7/14	Constructional features of the symbol-bearing or -	11/20	• • • Electric control therefor
	forming elements	11/20	<ul> <li>of a band other than endless</li> </ul>
7/16	• Letters, numerals, or other symbols, adapted for	11/295	<ul> <li>• • Electric control therefor</li> </ul>
7/10	permanent fixing to a support	11/295	<ul> <li>the display elements being fed one by one from a</li> </ul>
7/18	• Means for attaching signs, plates, panels, or boards to a supporting structure	11/50	storage place to a display position
7/20	for adjustably mounting	11/32	<ul> <li>the feeding means comprising belts or chains, e.g. endless belts or chains</li> </ul>
7/22	<ul> <li>for rotatably or swingably mounting, e.g. for boards adapted to be rotated by the wind</li> </ul>	11/34	<ul> <li>the feeding means comprising electromagnets</li> </ul>
		40.000	
9/00	Indicating arrangements for variable information in which the information is built-up on a support by selection or combination of individual elements (in	13/00	<b>Illuminated signs; Luminous advertising</b> (G09F 9/00, G09F 11/00 take precedence; mobile visual advertising G09F 21/00)
	which the variable information is permanently attached	13/02	• Signs, boards, or panels, illuminated by artificial light
	to a movable support G09F 11/00)		sources positioned in front of the insignia
			sources positioned in front of the insigna
9/30	• in which the desired character or characters are	13/04	• Signs, boards, or panels, illuminated from behind the
9/30	• in which the desired character or characters are formed by combining individual elements	13/04 13/06	<ul> <li>Signs, boards, or panels, illuminated from behind the insignia</li> <li>using individual cut-out symbols or cut-out</li> </ul>
9/30	<ul> <li>in which the desired character or characters are formed by combining individual elements</li> <li>Note(s) [2012.01]</li> </ul>	13/06	• Signs, boards, or panels, illuminated from behind the insignia
9/30	<ul> <li>in which the desired character or characters are formed by combining individual elements</li> <li>Note(s) [2012.01]</li> <li>Group G09F 9/302 takes precedence over groups</li> </ul>	13/06 13/08	<ul> <li>Signs, boards, or panels, illuminated from behind the insignia</li> <li>using individual cut-out symbols or cut-out silhouettes, e.g. perforated signs</li> <li>using both translucent and non-translucent layers</li> </ul>
	<ul> <li>in which the desired character or characters are formed by combining individual elements</li> <li>Note(s) [2012.01]</li> <li>Group G09F 9/302 takes precedence over groups G09F 9/305-G09F 9/37.</li> </ul>	13/06 13/08 13/10	<ul> <li>Signs, boards, or panels, illuminated from behind the insignia</li> <li>using individual cut-out symbols or cut-out silhouettes, e.g. perforated signs</li> <li>using both translucent and non-translucent layers</li> <li>using transparencies</li> </ul>
9/30 9/302	<ul> <li>in which the desired character or characters are formed by combining individual elements</li> <li>Note(s) [2012.01]</li> <li>Group G09F 9/302 takes precedence over groups G09F 9/305-G09F 9/37.</li> <li>characterised by the form or geometrical</li> </ul>	13/06 13/08	<ul> <li>Signs, boards, or panels, illuminated from behind the insignia</li> <li>using individual cut-out symbols or cut-out silhouettes, e.g. perforated signs</li> <li>using both translucent and non-translucent layers</li> <li>using transparencies</li> <li>using a transparent mirror or other light- reflecting</li> </ul>
9/302	<ul> <li>in which the desired character or characters are formed by combining individual elements</li> <li>Note(s) [2012.01]</li> <li>Group G09F 9/302 takes precedence over groups G09F 9/305-G09F 9/37.</li> <li>characterised by the form or geometrical disposition of the individual elements [7]</li> </ul>	13/06 13/08 13/10	<ul> <li>Signs, boards, or panels, illuminated from behind the insignia</li> <li>using individual cut-out symbols or cut-out silhouettes, e.g. perforated signs</li> <li>using both translucent and non-translucent layers</li> <li>using transparencies</li> <li>using a transparent mirror or other light- reflecting surface transparent to transmitted light whereby a</li> </ul>
	<ul> <li>in which the desired character or characters are formed by combining individual elements</li> <li>Note(s) [2012.01]</li> <li>Group G09F 9/302 takes precedence over groups G09F 9/305-G09F 9/37.</li> <li>characterised by the form or geometrical disposition of the individual elements [7]</li> <li>being the ends of optical fibres (G09F 9/302 takes</li> </ul>	13/06 13/08 13/10	<ul> <li>Signs, boards, or panels, illuminated from behind the insignia</li> <li>using individual cut-out symbols or cut-out silhouettes, e.g. perforated signs</li> <li>using both translucent and non-translucent layers</li> <li>using transparencies</li> <li>using a transparent mirror or other light- reflecting surface transparent to transmitted light whereby a sign, symbol, picture, or other information is</li> </ul>
9/302 9/305	<ul> <li>in which the desired character or characters are formed by combining individual elements</li> <li>Note(s) [2012.01]</li> <li>Group G09F 9/302 takes precedence over groups G09F 9/305-G09F 9/37.</li> <li>characterised by the form or geometrical disposition of the individual elements [7]</li> <li>being the ends of optical fibres (G09F 9/302 takes precedence) [7]</li> </ul>	13/06 13/08 13/10 13/12	<ul> <li>Signs, boards, or panels, illuminated from behind the insignia</li> <li>using individual cut-out symbols or cut-out silhouettes, e.g. perforated signs</li> <li>using both translucent and non-translucent layers</li> <li>using transparencies</li> <li>using a transparent mirror or other light- reflecting surface transparent to transmitted light whereby a sign, symbol, picture, or other information is visible only when illuminated</li> </ul>
9/302 9/305 9/307	<ul> <li>in which the desired character or characters are formed by combining individual elements</li> <li>Note(s) [2012.01]</li> <li>Group G09F 9/302 takes precedence over groups G09F 9/305-G09F 9/37.</li> <li>characterised by the form or geometrical disposition of the individual elements [7]</li> <li>being the ends of optical fibres (G09F 9/302 takes precedence) [7]</li> <li>being incandescent filaments [3, 7]</li> </ul>	13/06 13/08 13/10 13/12 13/14	<ul> <li>Signs, boards, or panels, illuminated from behind the insignia</li> <li>using individual cut-out symbols or cut-out silhouettes, e.g. perforated signs</li> <li>using both translucent and non-translucent layers</li> <li>using transparencies</li> <li>using a transparent mirror or other light- reflecting surface transparent to transmitted light whereby a sign, symbol, picture, or other information is visible only when illuminated</li> <li>Arrangements of reflectors therein</li> </ul>
9/302 9/305 9/307 9/313	<ul> <li>in which the desired character or characters are formed by combining individual elements</li> <li>Note(s) [2012.01]</li> <li>Group G09F 9/302 takes precedence over groups G09F 9/305-G09F 9/37.</li> <li>characterised by the form or geometrical disposition of the individual elements [7]</li> <li>being the ends of optical fibres (G09F 9/302 takes precedence) [7]</li> <li>being incandescent filaments [3, 7]</li> <li>being gas discharge devices [3, 7]</li> </ul>	13/06 13/08 13/10 13/12	<ul> <li>Signs, boards, or panels, illuminated from behind the insignia</li> <li>using individual cut-out symbols or cut-out silhouettes, e.g. perforated signs</li> <li>using both translucent and non-translucent layers</li> <li>using transparencies</li> <li>using a transparent mirror or other light- reflecting surface transparent to transmitted light whereby a sign, symbol, picture, or other information is visible only when illuminated</li> <li>Arrangements of reflectors therein</li> <li>Signs formed of, or incorporating, reflecting elements</li> </ul>
9/302 9/305 9/307 9/313 9/33	<ul> <li>in which the desired character or characters are formed by combining individual elements</li> <li>Note(s) [2012.01]</li> <li>Group G09F 9/302 takes precedence over groups G09F 9/305-G09F 9/37.</li> <li>characterised by the form or geometrical disposition of the individual elements [7]</li> <li>being the ends of optical fibres (G09F 9/302 takes precedence) [7]</li> <li>being incandescent filaments [3, 7]</li> <li>being gas discharge devices [3, 7]</li> <li>being semiconductor devices, e.g. diodes [3, 7]</li> </ul>	13/06 13/08 13/10 13/12 13/14	<ul> <li>Signs, boards, or panels, illuminated from behind the insignia</li> <li>using individual cut-out symbols or cut-out silhouettes, e.g. perforated signs</li> <li>using both translucent and non-translucent layers</li> <li>using transparencies</li> <li>using a transparent mirror or other light- reflecting surface transparent to transmitted light whereby a sign, symbol, picture, or other information is visible only when illuminated</li> <li>Arrangements of reflectors therein</li> </ul>
9/302 9/305 9/307 9/313 9/33 9/35	<ul> <li>in which the desired character or characters are formed by combining individual elements</li> <li>Note(s) [2012.01]</li> <li>Group G09F 9/302 takes precedence over groups G09F 9/305-G09F 9/37.</li> <li>characterised by the form or geometrical disposition of the individual elements [7]</li> <li>being the ends of optical fibres (G09F 9/302 takes precedence) [7]</li> <li>being incandescent filaments [3, 7]</li> <li>being gas discharge devices [3, 7]</li> <li>being semiconductor devices, e.g. diodes [3, 7]</li> <li>being liquid crystals [3, 7]</li> </ul>	13/06 13/08 13/10 13/12 13/14	<ul> <li>Signs, boards, or panels, illuminated from behind the insignia</li> <li>using individual cut-out symbols or cut-out silhouettes, e.g. perforated signs</li> <li>using both translucent and non-translucent layers</li> <li>using transparencies</li> <li>using a transparent mirror or other light- reflecting surface transparent to transmitted light whereby a sign, symbol, picture, or other information is visible only when illuminated</li> <li>Arrangements of reflectors therein</li> <li>Signs formed of, or incorporating, reflecting elements or surfaces, e.g. warning signs having triangular or other geometrical shape</li> </ul>
9/302 9/305 9/307 9/313 9/33 9/35 9/37	<ul> <li>in which the desired character or characters are formed by combining individual elements</li> <li>Note(s) [2012.01]</li> <li>Group G09F 9/302 takes precedence over groups G09F 9/305-G09F 9/37.</li> <li>characterised by the form or geometrical disposition of the individual elements [7]</li> <li>being the ends of optical fibres (G09F 9/302 takes precedence) [7]</li> <li>being incandescent filaments [3, 7]</li> <li>being gas discharge devices [3, 7]</li> <li>being semiconductor devices, e.g. diodes [3, 7]</li> <li>being liquid crystals [3, 7]</li> <li>being movable elements [3, 7]</li> </ul>	13/06 13/08 13/10 13/12 13/14 13/16	<ul> <li>Signs, boards, or panels, illuminated from behind the insignia</li> <li>using individual cut-out symbols or cut-out silhouettes, e.g. perforated signs</li> <li>using both translucent and non-translucent layers</li> <li>using transparencies</li> <li>using a transparent mirror or other light- reflecting surface transparent to transmitted light whereby a sign, symbol, picture, or other information is visible only when illuminated</li> <li>Arrangements of reflectors therein</li> <li>Signs formed of, or incorporating, reflecting elements or surfaces, e.g. warning signs having triangular or</li> </ul>
9/302 9/305 9/307 9/313 9/33 9/35	<ul> <li>in which the desired character or characters are formed by combining individual elements</li> <li>Note(s) [2012.01]</li> <li>Group G09F 9/302 takes precedence over groups G09F 9/305-G09F 9/37.</li> <li>characterised by the form or geometrical disposition of the individual elements [7]</li> <li>being the ends of optical fibres (G09F 9/302 takes precedence) [7]</li> <li>being incandescent filaments [3, 7]</li> <li>being gas discharge devices [3, 7]</li> <li>being semiconductor devices, e.g. diodes [3, 7]</li> <li>being liquid crystals [3, 7]</li> <li>being movable elements [3, 7]</li> <li>in which the desired character is selected from a</li> </ul>	13/06 13/08 13/10 13/12 13/14 13/16 13/18	<ul> <li>Signs, boards, or panels, illuminated from behind the insignia</li> <li>using individual cut-out symbols or cut-out silhouettes, e.g. perforated signs</li> <li>using both translucent and non-translucent layers</li> <li>using a transparencies</li> <li>using a transparent mirror or other light- reflecting surface transparent to transmitted light whereby a sign, symbol, picture, or other information is visible only when illuminated</li> <li>Arrangements of reflectors therein</li> <li>Signs formed of, or incorporating, reflecting elements or surfaces, e.g. warning signs having triangular or other geometrical shape</li> <li>Edge-illuminated signs</li> </ul>
9/302 9/305 9/307 9/313 9/33 9/35 9/37	<ul> <li>in which the desired character or characters are formed by combining individual elements</li> <li>Note(s) [2012.01]</li> <li>Group G09F 9/302 takes precedence over groups G09F 9/305-G09F 9/37.</li> <li>characterised by the form or geometrical disposition of the individual elements [7]</li> <li>being the ends of optical fibres (G09F 9/302 takes precedence) [7]</li> <li>being incandescent filaments [3, 7]</li> <li>being gas discharge devices [3, 7]</li> <li>being semiconductor devices, e.g. diodes [3, 7]</li> <li>being liquid crystals [3, 7]</li> <li>being movable elements [3, 7]</li> </ul>	13/06 13/08 13/10 13/12 13/14 13/16 13/18 13/20	<ul> <li>Signs, boards, or panels, illuminated from behind the insignia</li> <li>using individual cut-out symbols or cut-out silhouettes, e.g. perforated signs</li> <li>using both translucent and non-translucent layers</li> <li>using transparencies</li> <li>using a transparent mirror or other light- reflecting surface transparent to transmitted light whereby a sign, symbol, picture, or other information is visible only when illuminated</li> <li>Arrangements of reflectors therein</li> <li>Signs formed of, or incorporating, reflecting elements or surfaces, e.g. warning signs having triangular or other geometrical shape</li> <li>Edge-illuminated signs</li> <li>with luminescent surfaces or parts</li> </ul>
9/302 9/305 9/307 9/313 9/33 9/35 9/37	<ul> <li>in which the desired character or characters are formed by combining individual elements</li> <li>Note(s) [2012.01]</li> <li>Group G09F 9/302 takes precedence over groups G09F 9/305-G09F 9/37.</li> <li>characterised by the form or geometrical disposition of the individual elements [7]</li> <li>being the ends of optical fibres (G09F 9/302 takes precedence) [7]</li> <li>being incandescent filaments [3, 7]</li> <li>being gas discharge devices [3, 7]</li> <li>being liquid crystals [3, 7]</li> <li>being movable elements [3, 7]</li> <li>in which the desired character is selected from a number of characters arranged one beside the other, e.g. on a common carrier plate</li> <li>in which the desired character is selected from a</li> </ul>	13/06 13/08 13/10 13/12 13/14 13/16 13/18 13/20 13/22	<ul> <li>Signs, boards, or panels, illuminated from behind the insignia</li> <li>using individual cut-out symbols or cut-out silhouettes, e.g. perforated signs</li> <li>using both translucent and non-translucent layers</li> <li>using transparencies</li> <li>using a transparent mirror or other light- reflecting surface transparent to transmitted light whereby a sign, symbol, picture, or other information is visible only when illuminated</li> <li>Arrangements of reflectors therein</li> <li>Signs formed of, or incorporating, reflecting elements or surfaces, e.g. warning signs having triangular or other geometrical shape</li> <li>Edge-illuminated signs</li> <li>with luminescent surfaces or parts</li> <li>electroluminescent</li> </ul>
9/302 9/305 9/307 9/313 9/33 9/35 9/37 9/40	<ul> <li>in which the desired character or characters are formed by combining individual elements</li> <li>Note(s) [2012.01]</li> <li>Group G09F 9/302 takes precedence over groups G09F 9/305-G09F 9/37.</li> <li>characterised by the form or geometrical disposition of the individual elements [7]</li> <li>being the ends of optical fibres (G09F 9/302 takes precedence) [7]</li> <li>being incandescent filaments [3, 7]</li> <li>being gas discharge devices [3, 7]</li> <li>being semiconductor devices, e.g. diodes [3, 7]</li> <li>being liquid crystals [3, 7]</li> <li>being movable elements [3, 7]</li> <li>in which the desired character is selected from a number of characters arranged one beside the other, e.g. on a common carrier plate</li> </ul>	13/06 13/08 13/10 13/12 13/14 13/16 13/18 13/20 13/22	<ul> <li>Signs, boards, or panels, illuminated from behind the insignia</li> <li>using individual cut-out symbols or cut-out silhouettes, e.g. perforated signs</li> <li>using both translucent and non-translucent layers</li> <li>using transparencies</li> <li>using a transparent mirror or other light- reflecting surface transparent to transmitted light whereby a sign, symbol, picture, or other information is visible only when illuminated</li> <li>Arrangements of reflectors therein</li> <li>Signs formed of, or incorporating, reflecting elements or surfaces, e.g. warning signs having triangular or other geometrical shape</li> <li>Edge-illuminated signs</li> <li>with luminescent surfaces or parts</li> <li>electroluminescent</li> <li>using tubes or the like filled with liquid, e.g. bubbling liquid</li> <li>Signs formed by electric discharge tubes (by selective</li> </ul>
9/302 9/305 9/307 9/313 9/33 9/35 9/37 9/40	<ul> <li>in which the desired character or characters are formed by combining individual elements</li> <li>Note(s) [2012.01]</li> <li>Group G09F 9/302 takes precedence over groups G09F 9/305-G09F 9/37.</li> <li>characterised by the form or geometrical disposition of the individual elements [7]</li> <li>being the ends of optical fibres (G09F 9/302 takes precedence) [7]</li> <li>being incandescent filaments [3, 7]</li> <li>being gas discharge devices [3, 7]</li> <li>being liquid crystals [3, 7]</li> <li>being movable elements [3, 7]</li> <li>in which the desired character is selected from a number of characters arranged one beside the other, e.g. on a common carrier plate</li> <li>in which the desired character is selected from a</li> </ul>	13/06 13/08 13/10 13/12 13/14 13/16 13/18 13/20 13/22 13/24 13/26	<ul> <li>Signs, boards, or panels, illuminated from behind the insignia</li> <li>using individual cut-out symbols or cut-out silhouettes, e.g. perforated signs</li> <li>using both translucent and non-translucent layers</li> <li>using transparencies</li> <li>using a transparent mirror or other light- reflecting surface transparent to transmitted light whereby a sign, symbol, picture, or other information is visible only when illuminated</li> <li>Arrangements of reflectors therein</li> <li>Signs formed of, or incorporating, reflecting elements or surfaces, e.g. warning signs having triangular or other geometrical shape</li> <li>Edge-illuminated signs</li> <li>with luminescent surfaces or parts</li> <li>electroluminescent</li> <li>using tubes or the like filled with liquid, e.g. bubbling liquid</li> <li>Signs formed by electric discharge tubes (by selective lighting G09F 9/00)</li> </ul>
9/302 9/305 9/307 9/313 9/33 9/35 9/37 9/40 9/46	<ul> <li>in which the desired character or characters are formed by combining individual elements</li> <li>Note(s) [2012.01]</li> <li>Group G09F 9/302 takes precedence over groups G09F 9/305-G09F 9/37.</li> <li>characterised by the form or geometrical disposition of the individual elements [7]</li> <li>being the ends of optical fibres (G09F 9/302 takes precedence) [7]</li> <li>being jincandescent filaments [3, 7]</li> <li>being gas discharge devices [3, 7]</li> <li>being liquid crystals [3, 7]</li> <li>being movable elements [3, 7]</li> <li>being movable elements [3, 7]</li> <li>in which the desired character is selected from a number of characters arranged one beside the other, e.g. on a common carrier plate</li> <li>in which the desired character is selected from a number of characters arranged one behind the other</li> </ul>	13/06 13/08 13/10 13/12 13/14 13/16 13/18 13/20 13/22 13/24	<ul> <li>Signs, boards, or panels, illuminated from behind the insignia</li> <li>using individual cut-out symbols or cut-out silhouettes, e.g. perforated signs</li> <li>using both translucent and non-translucent layers</li> <li>using transparencies</li> <li>using a transparent mirror or other light- reflecting surface transparent to transmitted light whereby a sign, symbol, picture, or other information is visible only when illuminated</li> <li>Arrangements of reflectors therein</li> <li>Signs formed of, or incorporating, reflecting elements or surfaces, e.g. warning signs having triangular or other geometrical shape</li> <li>Edge-illuminated signs</li> <li>with luminescent surfaces or parts</li> <li>electroluminescent</li> <li>using tubes or the like filled with liquid, e.g. bubbling liquid</li> <li>Signs formed by electric discharge tubes (by selective</li> </ul>
9/302 9/305 9/307 9/313 9/33 9/35 9/37 9/40 9/46	<ul> <li>in which the desired character or characters are formed by combining individual elements</li> <li>Note(s) [2012.01]</li> <li>Group G09F 9/302 takes precedence over groups G09F 9/305-G09F 9/37.</li> <li>characterised by the form or geometrical disposition of the individual elements [7]</li> <li>being the ends of optical fibres (G09F 9/302 takes precedence) [7]</li> <li>being gas discharge devices [3, 7]</li> <li>being gas discharge devices, e.g. diodes [3, 7]</li> <li>being movable elements [3, 7]</li> <li>being movable elements [3, 7]</li> <li>in which the desired character is selected from a number of characters arranged one beside the other, e.g. on a common carrier plate</li> <li>in which the desired character is selected from a number of characters arranged one behind the other</li> </ul>	13/06 13/08 13/10 13/12 13/14 13/16 13/18 13/20 13/22 13/24 13/26	<ul> <li>Signs, boards, or panels, illuminated from behind the insignia</li> <li>using individual cut-out symbols or cut-out silhouettes, e.g. perforated signs</li> <li>using both translucent and non-translucent layers</li> <li>using transparencies</li> <li>using a transparent mirror or other light- reflecting surface transparent to transmitted light whereby a sign, symbol, picture, or other information is visible only when illuminated</li> <li>Arrangements of reflectors therein</li> <li>Signs formed of, or incorporating, reflecting elements or surfaces, e.g. warning signs having triangular or other geometrical shape</li> <li>Edge-illuminated signs</li> <li>with luminescent surfaces or parts</li> <li>electroluminescent</li> <li>using tubes or the like filled with liquid, e.g. bubbling liquid</li> <li>Signs formed by electric discharge tubes (by selective lighting G09F 9/00)</li> <li>Signs formed by filament-type lamps (by selective lighting G09F 9/00)</li> </ul>
9/302 9/305 9/307 9/313 9/33 9/35 9/37 9/40 9/46 <b>11/00</b>	<ul> <li>in which the desired character or characters are formed by combining individual elements</li> <li>Note(s) [2012.01]</li> <li>Group G09F 9/302 takes precedence over groups G09F 9/305-G09F 9/37.</li> <li>characterised by the form or geometrical disposition of the individual elements [7]</li> <li>being the ends of optical fibres (G09F 9/302 takes precedence) [7]</li> <li>being incandescent filaments [3, 7]</li> <li>being gas discharge devices [3, 7]</li> <li>being semiconductor devices, e.g. diodes [3, 7]</li> <li>being movable elements [3, 7]</li> <li>being movable elements [3, 7]</li> <li>in which the desired character is selected from a number of characters arranged one beside the other, e.g. on a common carrier plate</li> <li>in which the desired character is selected from a number of characters arranged one behind the other</li> <li>Indicating arrangements for variable information in which the complete information is permanently attached to a movable support which brings it to the display position</li> </ul>	13/06 13/08 13/10 13/12 13/14 13/16 13/18 13/20 13/22 13/24 13/26 13/28	<ul> <li>Signs, boards, or panels, illuminated from behind the insignia</li> <li>using individual cut-out symbols or cut-out silhouettes, e.g. perforated signs</li> <li>using both translucent and non-translucent layers</li> <li>using transparencies</li> <li>using a transparent mirror or other light- reflecting surface transparent to transmitted light whereby a sign, symbol, picture, or other information is visible only when illuminated</li> <li>Arrangements of reflectors therein</li> <li>Signs formed of, or incorporating, reflecting elements or surfaces, e.g. warning signs having triangular or other geometrical shape</li> <li>Edge-illuminated signs</li> <li>with luminescent surfaces or parts</li> <li>electroluminescent</li> <li>using tubes or the like filled with liquid, e.g. bubbling liquid</li> <li>Signs formed by electric discharge tubes (by selective lighting G09F 9/00)</li> <li>Signs formed by filament-type lamps (by selective</li> </ul>
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9/302 9/305 9/307 9/313 9/33 9/35 9/37 9/40 9/46 <b>11/00</b> 11/02 11/02	<ul> <li>in which the desired character or characters are formed by combining individual elements</li> <li>Note(s) [2012.01]</li> <li>Group G09F 9/302 takes precedence over groups G09F 9/305-G09F 9/37.</li> <li>characterised by the form or geometrical disposition of the individual elements [7]</li> <li>being the ends of optical fibres (G09F 9/302 takes precedence) [7]</li> <li>being gas discharge devices [3, 7]</li> <li>being gas discharge devices, e.g. diodes [3, 7]</li> <li>being movable elements [3, 7]</li> <li>being movable elements [3, 7]</li> <li>in which the desired character is selected from a number of characters arranged one beside the other, e.g. on a common carrier plate</li> <li>in which the desired character is selected from a number of characters arranged one behind the other</li> <li>Indicating arrangements for variable information in which the complete information is permanently attached to a movable support which brings it to the display position</li> <li>the display elements being secured to rotating members, e.g. drums, spindles</li> <li>the elements being secured to rotating discs</li> <li>the elements being stiff plates or cards (on rotating</li> </ul>	13/06 13/08 13/10 13/12 13/14 13/16 13/18 13/20 13/22 13/24 13/26 13/28 13/30 13/32	<ul> <li>Signs, boards, or panels, illuminated from behind the insignia</li> <li>using individual cut-out symbols or cut-out silhouettes, e.g. perforated signs</li> <li>using both translucent and non-translucent layers</li> <li>using transparencies</li> <li>using a transparent mirror or other light- reflecting surface transparent to transmitted light whereby a sign, symbol, picture, or other information is visible only when illuminated</li> <li>Arrangements of reflectors therein</li> <li>Signs formed of, or incorporating, reflecting elements or surfaces, e.g. warning signs having triangular or other geometrical shape</li> <li>Edge-illuminated signs</li> <li>with luminescent surfaces or parts</li> <li>electroluminescent</li> <li>using tubes or the like filled with liquid, e.g. bubbling liquid</li> <li>Signs formed by electric discharge tubes (by selective lighting G09F 9/00)</li> <li>Signs formed by filament-type lamps (by selective lighting G09F 9/00)</li> <li>with moving light sources, e.g. mirrors</li> <li>with moving optical part or parts, e.g. mirrors</li> <li>with light sources co-operating with movable members, e.g. with shutters to cover or uncover the</li> </ul>

#### G09F

13/36	• • co-operating with rotating screening means	21/02	• by a carrier person or animal
13/42	<ul> <li>with light sources activated by non-visible radiation</li> </ul>	21/04	<ul> <li>by land vehicles</li> </ul>
13/44	• with gas as lighting source	21/06	• by aeroplanes, airships, balloons, or kites
13/46	Advertising by fireworks	21/08	<ul> <li>the advertising matter being arranged on the aircraft</li> </ul>
15/00	Boards, hoardings, pillars, or like structures for	21/10	• • • illuminated
	notices, placards, posters, or the like	21/12	• • the advertising matter being towed by the aircraft
15/02	• Bills, posters, or the like therefor	21/14	• • • illuminated
17/00	Flags; Banners; Mountings therefor	21/16	Sky-writing
17700	rigo, Sumero, mountingo mereror	21/18	<ul> <li>by ships or other floating means</li> </ul>
19/00	Advertising or display means not otherwise provided	21/20	• • illuminated
	for	21/22	<ul> <li>Dispensing devices for pamphlets or similar</li> </ul>
19/02	<ul> <li>incorporating moving display members</li> </ul>		advertising matter from vehicles (from aircraft
19/04	• operated by the opening or closing of doors, e.g.		B64D 1/00)
10/00	shop door	23/00	Advertising on or in specific articles, e.g. ashtrays,
19/06	Writing devices		<b>letter-boxes</b> (on or in vehicles G09F 21/00)
19/08	<ul> <li>Dolls, faces or other representations of living forms with moving parts</li> </ul>	23/02	<ul> <li>the advertising matter being displayed by the operation of the article</li> </ul>
19/10	• • Devices demonstrating the action of an article to	23/04	<ul> <li>illuminated</li> </ul>
	be advertised	23/04	<ul> <li>the advertising matter being combined with articles</li> </ul>
19/12	using special optical effects	25/00	for restaurants, shops, or offices (on paper articles
19/14	displaying different signs depending upon the		G09F 23/10)
19/16	<ul><li>view-point of the observer</li><li>involving the use of mirrors</li></ul>	23/08	• • with tableware
19/16	<ul> <li>involving the use of optical projection means, e.g.</li> </ul>	23/10	<ul> <li>on paper articles, e.g. booklets, newspapers</li> </ul>
19/10	projection of images on clouds	23/12	• • on toilet paper
19/20	<ul> <li>with colour-mixing effects</li> </ul>	23/14	<ul> <li>on toys, games, puzzles, or similar devices</li> </ul>
19/20	<ul> <li>Advertising or display means on roads, walls or</li> </ul>	23/16	<ul> <li>on clocks, e.g. controlled by the clock mechanism</li> </ul>
10722	similar surfaces, e.g. illuminated		A 1911 1 201
	-	25/00	Audible advertising
21/00	<b>Mobile visual advertising</b> (combined visual and audible advertising G09F 27/00)	27/00	Combined visual and audible advertising or displaying, e.g. for public address

**G09G** ARRANGEMENTS OR CIRCUITS FOR CONTROL OF INDICATING DEVICES USING STATIC MEANS TO PRESENT VARIABLE INFORMATION (arrangements for transferring data between digital computers and displays G06F 3/14; static indicating arrangements comprising an association of a number of separate sources or light control cells G09F 9/00; static indicating arrangements comprising integral associations of a number of light sources H01J, H01K, H01L, H05B 33/12; scanning, transmission or reproduction of documents or the like, e.g. facsimile transmission, details thereof H04N 1/00) **[3, 4, 5]** 

#### Note(s)

- 1. This subclass <u>covers</u> indicator consoles, i.e. arrangements or circuits for processing control signals to achieve the display, e.g. for the calling up, reception, storage, regeneration, coding, decoding, addressing of control signals.
- 2. This subclass <u>does not cover</u> the structural details of the indicating devices, such as panels or tubes <u>per se</u>, or assemblies of individual light sources, which are covered by the relevant subclasses, e.g. H01J, H01K, H01L, G02F, G09F, H05B.
- 3. Contrary to subclass H04N, in which are classified display devices capable of representing continuous brightness value scales, this subclass is limited to devices using only a discrete number of brightness values, e.g. visible/non-visible.
- 4. The visual effect may be produced by a luminescent screen scanned by an electron beam, directly by controlled light sources, by projection of light, from controlled light sources onto characters, symbols, or elements thereof drawn on a support, or by electric, magnetic, or acoustic control of the parameters of light rays from an independent source.

1/00	Control arrangements or circuits, of interest only in connection with cathode-ray tube indicators [3]	1/10 • • • the deflection signals being produced by essentially digital means, e.g. incrementally <b>[3]</b>
1/02	<ul> <li>Storage circuits (G09G 1/06-G09G 1/28 take precedence) [3]</li> </ul>	1/12 • • • the deflection signals being produced by essentially analogue means <b>[3]</b>
1/04	Deflection circuits [3]	1/14 • • the beam tracing a pattern independent of the
1/06	• using single beam tubes (G09G 1/26, G09G 1/28 take precedence) [3]	information to be displayed, this latter determining the parts of the pattern rendered respectively
1/07	<ul> <li>with combined raster scan and calligraphic</li> </ul>	visible and invisible <b>[3]</b>
	display [5]	1/16 • • • the pattern of rectangular co-ordinates
1/08	<ul> <li>the beam directly tracing characters, the information to be displayed controlling the deflection as a function of time in two spatial co- ordinates, e.g. according to a cartesian co-ordinate</li> </ul>	extending over the whole area of the screen, i.e. television type raster <b>[3]</b>

system [3]

1/18	•	<ul> <li>a small local pattern covering only a single</li> </ul>
		character, and stepping to a position for the
		following character, e.g. in rectangular or polar
		co-ordinates, or in the form of a framed star [3]
1/20	•	using multi-beam tubes (G09G 1/26, G09G 1/28 take
		precedence) [3]
1/22	•	using tubes permitting selection of a complete
		character from a number of characters [3]
1/24	•	using tubes permitting selection of individual
		elements forming in combination a character <b>[3]</b>
1/26	•	using storage tubes [3]
1/28		using colour tubes [3]
1/20		
3/00	С	ontrol arrangements or circuits, of interest only in
5,00		onnection with visual indicators other than cathode-
		vy tubes [3]
3/02	•	by tracing or scanning a light beam on a screen <b>[3]</b>
3/04	•	for presentation of a single character by selection
5/04	-	from a plurality of characters, or by composing the
		character by combination of individual elements, e.g.
		segments [3]
3/06		<ul> <li>using controlled light sources [3]</li> </ul>
	•	
3/08	•	• • using incandescent filaments [3]
3/10	•	• • using gas tubes [3]
3/12	•	<ul> <li>using electroluminescent elements [3]</li> </ul>
3/14	•	• • • Semiconductor devices, e.g. diodes [3]
3/16	•	• by control of light from an independent source [3]
3/18	•	• • using liquid crystals [3]
3/19	•	• • using electrochromic devices [5]
3/20		for presentation of an assembly of a number of
5720		characters, e.g. a page, by composing the assembly
		by combination of individual elements arranged in a
		matrix [3]
3/22		<ul> <li>using controlled light sources [3]</li> </ul>
3/24		<ul> <li>using incandescent filaments [3]</li> </ul>
3/24		-
	•	• • • to give the appearance of moving signs <b>[3]</b>
3/28	•	• using luminous gas-discharge panels, e.g.
D (D007		plasma panels <b>[3, 2013.01]</b>
3/2807	•	• • with discharge activated by high-frequency
		signals specially adapted therefor <b>[2013.01]</b>
3/2813	•	• • • using alternating current [AC] - direct
		current [DC] hybrid-type panels [2013.01]
3/282	•	• • • using DC panels [7]
3/285	•	• • • using self-scanning [7]
3/288	•	• • • using AC panels <b>[7, 2013.01]</b>
3/29	•	• • • • using self-shift panels [5]
3/291	•	• • • controlling the gas discharge to control a
		cell condition, e.g. by means of specific
		pulse shapes <b>[2013.01]</b>
3/292	•	• • • • for reset discharge, priming discharge
2,202		or erase discharge occurring in a phase
		other than addressing <b>[2013.01]</b>
3/293	•	• • • • for address discharge [2013.01]
3/294		• • • • for lighting or sustain
57254		discharge <b>[2013.01]</b>
3/296		• • • Driving circuits for producing the
5/290	•	
		waveforms applied to the driving electrodes [2013.01]
7/207	_	
3/297	•	• • • using opposed discharge type
2 /200		panels <b>[2013.01]</b>
3/298	•	• • • using surface discharge panels <b>[2013.01]</b>
3/299	•	• • • • using alternate lighting of surface-type
		panels <b>[2013.01]</b>
3/30	•	<ul> <li>using electroluminescent panels [3]</li> </ul>
3/32	•	• • • semiconductive, e.g. diodes [3]
3/34	•	• by control of light from an independent source [3]

3/36	•	• • using liquid crystals [3]
3/38	•	• • using electrochromic devices [5]
E /00	c	antral arrangements or sirewite for viewal
5/00	in	ontrol arrangements or circuits for visual dicators common to cathode-ray tube indicators ıd other visual indicators [5]
5/02	•	characterised by the way in which colour is
0,02		displayed [5]
5/04	•	<ul> <li>using circuits for interfacing with colour displays [5]</li> </ul>
5/06	•	• using colour palettes, e.g. look-up tables <b>[5]</b>
5/08	•	Cursor circuits <b>[5]</b>
5/10	•	Intensity circuits [5]
5/12	•	Synchronisation between the display unit and other
		units, e.g. other display units, video-disc players [5]
5/14	•	Display of multiple viewports <b>[5]</b>
5/16	•	Display of right-to-left language [5]
5/18	•	Timing circuits for raster scan displays (specially adapted for television H04N) <b>[5]</b>
5/20	•	Function-generator circuits, e.g. circle generators [5]
5/22	•	characterised by the display of individual characters or indicia using display control signals derived from coded signals representing the characters or indicia with a character-code memory (G09G 5/42 takes precedence) <b>[5, 7]</b>
5/24		Generation of individual character patterns [5]
5/24	•	• • for modifying the character dimension, e.g.
F /20		double width, double height <b>[5]</b>
5/28	•	for enhancement of character form, e.g. smoothing [5]
5/30	•	Control of display attribute [5]
5/32	•	• with means for controlling the display position [5]
5/34	•	for rolling or scrolling [5]
5/36	•	characterised by the display of individual graphic
0,00		patterns using a bit-mapped memory (G09G 5/42
		takes precedence) <b>[5, 7]</b>
5/37	•	• Details of the operation on graphic patterns (G09G 5/38 takes precedence) <b>[7]</b>
5/373	•	• • for modifying the size of the graphic pattern [7]
5/377	•	<ul> <li>for mixing or overlaying two or more graphic patterns (G09G 5/02, G09G 5/397 take precedence) [7]</li> </ul>
5/38		
	•	• with means for controlling the display position <b>[5]</b>
5/39	•	• Control of the bit-mapped memory <b>[7]</b>
5/391	•	Resolution modifying circuits, e.g. variable screen formats [7]
5/393		<ul> <li>Arrangements for updating the contents of the</li> </ul>
	·	bit-mapped memory [7]
5/395	•	Arrangements specially adapted for transferring
		the contents of the bit-mapped memory to the screen (G09G 5/399 takes precedence) [7]
5/397	•	• • Arrangements specially adapted for
		transferring the contents of two or more bit- mapped memories to the screen
		simultaneously, e.g. for mixing or overlay
		(G09G 5/02 takes precedence) [7]
5/399	•	• • using two or more bit-mapped memories, the operations of which are switched in time, e.g.
		ping-pong buffers <b>[7]</b>
5/40	•	characterised by the way in which both a pattern
		determined by character code and another pattern are
		displayed simultaneously, or either pattern is
		displayed selectively, e.g. with character code memory and a bit-mapped memory <b>[5]</b>
		memory and a on mapped memory [0]

# G09G

5/42 • characterised by the display of patterns using a display memory without fixed position

correspondence between the display memory contents and the display position on the screen **[7]**