

**NORME
INTERNATIONALE**

**CEI
IEC**

**INTERNATIONAL
STANDARD**

60417-2

Première édition
First edition
1998-08

Symboles graphiques utilisables sur le matériel –

**Partie 2:
Dessins originaux**

Graphical symbols for use on equipment –

**Part 2:
Symbol originals**



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Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

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For price, see current catalogue*

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COMMISSION ÉLECTROTECHNIQUE INTERNATIONALE

SYMBOLES GRAPHIQUES UTILISABLES SUR LE MATÉRIEL –

Partie 2: Dessins originaux

AVANT-PROPOS

- 1) La CEI (Commission Electrotechnique Internationale) est une organisation mondiale de normalisation composée de l'ensemble des comités électrotechniques nationaux (Comités nationaux de la CEI). La CEI a pour objet de favoriser la coopération internationale pour toutes les questions de normalisation dans les domaines de l'électricité et de l'électronique. A cet effet, la CEI, entre autres activités, publie des Normes Internationales. Leur élaboration est confiée à des comités d'études, aux travaux desquels tout Comité national intéressé par le sujet traité peut participer. Les organisations internationales, gouvernementales et non gouvernementales, en liaison avec la CEI, participent également aux travaux. La CEI collabore étroitement avec l'Organisation Internationale de Normalisation (ISO), selon des conditions fixées par accord entre les deux organisations.
- 2) Les décisions ou accords officiels de la CEI concernant les questions techniques, représentent, dans la mesure du possible un accord international sur les sujets étudiés, étant donné que les Comités nationaux intéressés sont représentés dans chaque comité d'études.
- 3) Les documents produits se présentent sous la forme de recommandations internationales. Ils sont publiés comme normes, rapports techniques ou guides et agréés comme tels par les Comités nationaux.
- 4) Dans le but d'encourager l'unification internationale, les Comités nationaux de la CEI s'engagent à appliquer de façon transparente, dans toute la mesure possible, les Normes internationales de la CEI dans leurs normes nationales et régionales. Toute divergence entre la norme de la CEI et la norme nationale ou régionale correspondante doit être indiquée en termes clairs dans cette dernière.
- 5) La CEI n'a fixé aucune procédure concernant le marquage comme indication d'approbation et sa responsabilité n'est pas engagée quand un matériel est déclaré conforme à l'une de ses normes.
- 6) L'attention est attirée sur le fait que certains des éléments de la présente Norme internationale peuvent faire l'objet de droits de propriété intellectuelle ou de droits analogues. La CEI ne saurait être tenue pour responsable de ne pas avoir identifié de tels droits de propriété et de ne pas avoir signalé leur existence.

La Norme internationale CEI 60417-2 a été établie par le sous-comité 3C: Symboles graphiques utilisables sur le matériel, du comité d'études 3 de la CEI: Documentation et symboles graphiques.

La CEI 60417-1 (première édition) et la CEI 60417-2 (première édition) annulent et remplacent la première édition de la CEI 60417 (1973), les compléments A (1974), B (1975), C (1977), D (1978), E (1980), F (1982), G (1985), H (1987), J (1990), K (1991), L (1993), M (1994), N (1995), O (1996) et P (1997), dont elles constituent une révision technique.

Le texte de cette norme est issu des documents suivants:

FDIS	Rapport de vote
3C/363/FDIS	3C/378/RVD

Le rapport de vote indiqué dans le tableau ci-dessus donne toute information sur le vote ayant abouti à l'approbation de cette norme.

La CEI 60417 comprend les parties suivantes sous le titre général *Symboles graphiques utilisables sur le matériel*:

- Partie 1: Vue d'ensemble et application
- Partie 2: Dessins originaux

INTERNATIONAL ELECTROTECHNICAL COMMISSION

GRAPHICAL SYMBOLS FOR USE ON EQUIPMENT –

Part 2: Symbol originals

FOREWORD

- 1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, the IEC publishes International Standards. Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. The IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- 2) The formal decisions or agreements of the IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested National Committees.
- 3) The documents produced have the form of recommendations for international use and are published in the form of standards, technical reports or guides and they are accepted by the National Committees in that sense.
- 4) In order to promote international unification, IEC National Committees undertake to apply IEC International Standards transparently to the maximum extent possible in their national and regional standards. Any divergence between the IEC Standard and the corresponding national or regional standard shall be clearly indicated in the latter.
- 5) The IEC provides no marking procedure to indicate its approval and cannot be rendered responsible for any equipment declared to be in conformity with one of its standards.
- 6) Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. The IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 60417-2 has been prepared by subcommittee 3C: Graphical symbols for use on equipment, of IEC technical committee 3: Documentation and graphical symbols.

IEC 60417-1 (first edition) and IEC 60417-2 (first edition) cancel and replace the first edition of IEC 60417 (1973), complements A (1974), B (1975), C (1977), D (1978), E (1980), F (1982), G (1985), H (1987), J (1990), K (1991), L (1993), M (1994), N (1995), O (1996) and P (1997), of which they constitute a technical revision.

The text of this standard is based on the following documents:

FDIS	Report on voting
3C/363/FDIS	3C/378/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

IEC 60417 includes the following parts under the general title *Graphical symbols for use on equipment*:

- Part 1: Overview and application
- Part 2: Symbol originals

INTRODUCTION

La présente partie de la CEI 60417 contient des symboles graphiques utilisables sur le matériel et créés selon les principes généraux de la CEI 60416.

La CEI 60417 est divisée en deux parties:

La CEI 60417-1 contient une présentation des symboles graphiques, avec les descriptions correspondantes, par ordre numérique. Elle est complétée par un index alphabétique et une vue d'ensemble graphique des symboles. Des classifications selon la forme et la fonction ainsi que des exemples d'application fournissent une aide supplémentaire à l'utilisateur.

La CEI 60417-2 contient, à l'échelle 1:1 et par ordre numérique, une présentation des symboles en vue d'en permettre la reproduction. Selon les règles de la CEI 60416, la position et la dimension des symboles graphiques dans le dessin de base peuvent être déterminées à l'aide de la feuille transparente du dessin de base. Les symboles sont dessinés normalement avec une précision minimum de ± 1 mm.

Il convient de se référer à la CEI 60416 pour les règles relatives aux applications, à la modification des symboles graphiques et à l'ajout d'information y compris des références.

Dans quelques cas, il y a deux versions possibles de la figure pour une seule fonction, par exemple les symboles 5107A et 5107B. Dans ces cas, on trouvera à l'endroit approprié une référence aux représentations graphiques alternatives qui sont données sur une feuille additionnelle.

Un problème semblable se présente lorsqu'il y a des combinaisons de figures avec des éléments de qualification différents, par exemple le symbole 5277. Dans ces cas, des feuilles additionnelles sont ajoutées avec les numéros de symboles 5277-1, 5277-2, etc.

En révisant la CEI 60417, des changements à caractère éditorial ont été apportés à quelques représentations graphiques pour corriger des erreurs antérieures, pour réduire l'épaisseur du trait à 2 mm, pour adapter les dessins au modèle de base et assurer la cohérence entre symboles d'un même groupe.

L'utilisateur est informé que la présente norme est fréquemment mise à jour afin d'y ajouter de nouveaux symboles.

INTRODUCTION

This part of IEC 60417 contains graphical symbols for use on equipment created following the general principles of IEC 60416.

IEC 60417 is divided into two parts:

IEC 60417-1 contains a presentation of the graphical symbols with the corresponding descriptions in numerical order. It is complemented by an alphabetical index and a graphical survey of the symbols. Additional information is provided to the user by the classifications according to form and function, and the examples of application.

IEC 60417-2 contains a presentation of the full size symbol originals for reproduction purposes in numerical order. The position and size of the graphical symbols within the basic pattern, according to the rules of IEC 60416, can be determined with the help of the transparent sheet of the basic pattern. The symbols are normally drawn to an minimum accuracy of ± 1 mm.

Reference should be made to IEC 60416 for rules for the application and modification of the graphical symbols, and for supplementary information including references.

In some cases there are two alternative graphical representations for one function, for example symbol 5107A and symbol 5107B. In these cases, a reference will be found in the appropriate place to the alternative graphical representations which appear on an additional sheet.

A similar problem occurs when there are combinations of figures with different qualifying elements, for example symbol 5277. In these cases additional sheets are added and the symbols numbered 5277-1, 5277-2, etc.

During the revision of IEC 60417 editorial changes have been made to some graphical representations to correct previous errors, to correct the line thickness to 2 mm, to fit the drawings to the basic pattern and to ensure consistency between symbols in a group.

The user is informed that this standard is updated frequently in order to incorporate new symbols.

SYMBOLES GRAPHIQUES UTILISABLES SUR LE MATÉRIEL –

Partie 2: Dessins originaux

1 Domaine d'application

La présente partie de la CEI 60417 contient les symboles graphiques cités dans la CEI 60417-1 pour en permettre la reproduction.

NOTE 1 – En général, trois dessins originaux sont représentés sur chaque page. S'il existe des numéros de symboles inutilisés, on laisse un espace blanc correspondant.

NOTE 2 – La date de publication originale de chaque symbole figure dans le tableau 1.

Concernant les règles relatives à l'application et à la modification des symboles graphiques, ainsi que pour des informations supplémentaires, y compris des références, il y a lieu de se référer à la CEI 60416: Principes généraux pour la création des symboles graphiques utilisables sur le matériel.

Afin de montrer la disposition du symbole graphique sur la grille de base, comme elle est normalisée dans la CEI 60416, une grille transparente est ajoutée.

Pour chaque symbole, les dimensions véritables de la largeur x et de la hauteur y sont données sous la forme de multiples de la dimension nominale $a = 50$ mm.

GRAPHICAL SYMBOLS FOR USE ON EQUIPMENT –

Part 2: Symbol originals

1 Scope

This part of IEC 60417 contains graphical symbols included in IEC 60417-1 for reproduction purposes.

NOTE 1 – Generally, three of the original drawings are shown on each page. If there are unused symbol numbers, the space is left free.

NOTE 2 - The original date of issue of each symbol is shown in table 1.

For rules for the application and modification of the graphical symbols, and for supplementary information including references, refer to IEC 60416: General principles for the creation of graphical symbols for use on equipment.

To show the arrangement of the graphical symbol in the basic pattern, as standardized in IEC 60416, the basic pattern is included as a transparent sheet.

For each symbol the real dimensions of the width x and the height y are given in multiples of the nominal dimension $a = 50$ mm.

Table 1: Publication history

The table shows when the current version of each symbol was originally published. All references are to IEC 417 and its supplements, except for "New edition, 1998" which is used to indicate those symbols which were published for the first time in IEC 60417-1 and IEC 60417-2. All symbols are reissued in this edition of the standard. In some cases editorial changes have been made to titles, descriptions, notes and/or graphical representations.

Tableau 1: Historique de la publication

Le tableau indique la date à laquelle la version actuelle de chaque symbole a été originellement publiée. Toutes les références s'appliquent à la CEI 417 et ses compléments, sauf lorsque la mention «New edition, 1998» est utilisée afin d'indiquer les symboles publiés pour la première fois dans les CEI 60417-1 et CEI 60417-2. Tous les symboles sont re-publiés dans la présente édition de la norme. Dans certains cas des changements éditoriaux ont été apportés aux titres, aux notes et/ou représentations graphiques.

5001	Supplement M, 1994	5032	First edition, 1973	5063	First edition, 1973
5002	First edition, 1973	5033	First edition, 1973	5064	First edition, 1973
5003	Supplement B, 1975	5034	First edition, 1973	5065	First edition, 1973
5004	First edition, 1973	5035	First edition, 1973	5066	First edition, 1973
5005	First edition, 1973	5036	Supplement B, 1975	5067	First edition, 1973
5006	First edition, 1973	5037	First edition, 1973	5068	First edition, 1973
5007	First edition, 1973	5038	First edition, 1973	5069	First edition, 1973
5008	First edition, 1973	5039	First edition, 1973	5070	First edition, 1973
5009	First edition, 1973	5040	First edition, 1973	5071	First edition, 1973
5010	First edition, 1973	5041	Supplement M, 1994	5072	First edition, 1973
5011	First edition, 1973	5042	First edition, 1973	5073	Supplement C, 1977
5012	First edition, 1973	5043	First edition, 1973	5074	Supplement C, 1977
5013	First edition, 1973	5044	First edition, 1973	5075	Supplement C, 1977
5014	First edition, 1973	5045	First edition, 1973	5076	First edition, 1973
5015	First edition, 1973	5046	Supplement A, 1974	5077	First edition, 1973
5016	First edition, 1973	5047	First edition, 1973	5078	First edition, 1973
5017	Supplement G, 1985	5048	First edition, 1973	5079	First edition, 1973
5018	Supplement G, 1985	5049	First edition, 1973	5080	First edition, 1973
5019	Supplement G, 1985	5050	First edition, 1973	5081	First edition, 1973
5020	Supplement C, 1977	5051	First edition, 1973	5082	First edition, 1973
5021	Supplement C, 1977	5052	First edition, 1973	5083	First edition, 1973
5022	First edition, 1973	5053	First edition, 1973	5084	First edition, 1973
5023	First edition, 1973	5054	First edition, 1973	5085	First edition, 1973
5024	First edition, 1973	5055	First edition, 1973	5086	First edition, 1973
5025	First edition, 1973	5056	First edition, 1973	5087	First edition, 1973
5026	First edition, 1973	5057	First edition, 1973	5088	First edition, 1973
5027	First edition, 1973	5058	First edition, 1973	5089	First edition, 1973
5028	First edition, 1973	5059	First edition, 1973	5090	First edition, 1973
5029	First edition, 1973	5060	First edition, 1973	5091	First edition, 1973
5030	First edition, 1973	5061	First edition, 1973	5092	First edition, 1973
5031	First edition, 1973	5062	First edition, 1973	5093	First edition, 1973

5094	First edition, 1973	5144	Supplement A, 1974	5200	Supplement D, 1978
5095	First edition, 1973	5145	Supplement A, 1974	5201	Supplement D, 1978
5096	First edition, 1973	5146	First edition, 1973	5202	Supplement D, 1978
5097	First edition, 1973	5147	First edition, 1973	5204	Supplement D, 1978
5098	First edition, 1973	5148	Supplement A, 1974	5210	Supplement G, 1985
5099	First edition, 1973	5149	Supplement A, 1974	5211	Supplement G, 1985
5100	First edition, 1973	5150	Supplement A, 1974	5213	Supplement C, 1977
5101	First edition, 1973	5151	Supplement C, 1977	5216	New edition, 1998
5102	First edition, 1973	5152	Supplement L, 1993	5219	Supplement L, 1993
5103	First edition, 1973	5153	Supplement C, 1977	5220	Supplement J, 1990
5104	First edition, 1973	5154	Supplement C, 1977	5221	Supplement J, 1990
5105	First edition, 1973	5156	Supplement C, 1977	5222	Supplement J, 1990
5106	First edition, 1973	5157	Supplement A, 1974	5223	Supplement J, 1990
5107A	Supplement K, 1991	5158	Supplement A, 1974	5225	Supplement C, 1977
5107B	Supplement K, 1991	5159	Supplement A, 1974	5226	Supplement E, 1980
5108A	Supplement K, 1991	5160	Supplement A, 1974	5227	Supplement E, 1980
5108B	Supplement K, 1991	5161	Supplement A, 1974	5228	Supplement E, 1980
5109	Supplement H, 1987	5162	Supplement A, 1974	5229	Supplement E, 1980
5110	First edition, 1973	5163	First edition, 1973	5230	Supplement E, 1980
5111	First edition, 1973	5164	First edition, 1973	5231	Supplement E, 1980
5112	First edition, 1973	5165	First edition, 1973	5232	Supplement P, 1997
5113	Supplement K, 1991	5166	First edition, 1973	5234	Supplement E, 1980
5114	New edition, 1998	5167	First edition, 1973	5235	Supplement E, 1980
5115	First edition, 1973	5168	First edition, 1973	5236	Supplement E, 1980
5116	First edition, 1973	5169	First edition, 1973	5237	Supplement G, 1985
5117	First edition, 1973	5170	First edition, 1973	5249	Supplement H, 1987
5118	First edition, 1973	5171	First edition, 1973	5250	Supplement L, 1993
5119	First edition, 1973	5172	Supplement B, 1975	5251	Supplement L, 1993
5120	First edition, 1973	5173	Supplement J, 1990	5252	Supplement L, 1993
5121	First edition, 1973	5177	Supplement B, 1975	5253	Supplement L, 1993
5122	First edition, 1973	5178	Supplement B, 1975	5254	Supplement G, 1985
5123	First edition, 1973	5179	Supplement F, 1982	5255	Supplement G, 1985
5124A	Supplement K, 1991	5180	Supplement K, 1991	5256	Supplement G, 1985
5124B	Supplement K, 1991	5181	Supplement G, 1985	5257	Supplement G, 1985
5125A	Supplement K, 1991	5182	Supplement B, 1975	5258	Supplement H, 1987
5125B	Supplement K, 1991	5183	Supplement O, 1996	5259	Supplement H, 1987
5126	Supplement G, 1985	5184	Supplement C, 1977	5260	Supplement G, 1985
5127	Supplement G, 1985	5185	Supplement B, 1975	5260-1	Supplement G, 1985
5128	Supplement B, 1975	5186	Supplement M, 1994	5260-2	Supplement G, 1985
5129	Supplement A, 1974	5187	Supplement F, 1982	5261	Supplement G, 1985
5130	Supplement A, 1974	5188	Supplement F, 1982	5261-1	Supplement G, 1985
5131	Supplement A, 1974	5189	Supplement F, 1982	5261-2	Supplement G, 1985
5132	Supplement K, 1991	5190	Supplement F, 1982	5262	Supplement G, 1985
5133	Supplement A, 1974	5191	Supplement F, 1982	5263	Supplement G, 1985
5134	Supplement G, 1985	5192	Supplement G, 1985	5264	Supplement G, 1985
5136	Supplement A, 1974	5193	Supplement G, 1985	5265	Supplement G, 1985
5137	Supplement A, 1974	5194	Supplement B, 1975	5266	Supplement G, 1985
5138	Supplement M, 1994	5195	Supplement B, 1975	5267	Supplement H, 1987
5140	Supplement L, 1993	5196	Supplement D, 1978	5268	Supplement G, 1985
5141	Supplement A, 1974	5197	Supplement D, 1978	5269	Supplement G, 1985
5142	Supplement A, 1974	5198	Supplement D, 1978	5271	Supplement G, 1985
5143	Supplement B, 1975	5199	Supplement D, 1978	5272	Supplement G, 1985

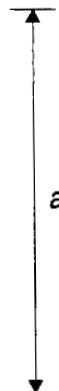
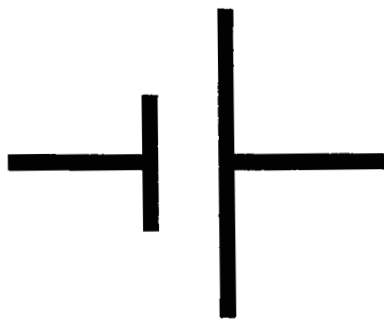
5273	Supplement G, 1985	5309	Supplement K, 1991	5362	Supplement G, 1985
5274	Supplement G, 1985	5310	Supplement G, 1985	5363	Supplement G, 1985
5275	Supplement G, 1985	5311	Supplement G, 1985	5364	Supplement G, 1985
5276	Supplement H, 1987	5312	Supplement G, 1985	5365	Supplement G, 1985
5276-1	Supplement H, 1987	5313	Supplement G, 1985	5366	Supplement G, 1985
5276-2	Supplement H, 1987	5314	Supplement G, 1985	5367	Supplement G, 1985
5276-3	Supplement H, 1987	5315	Supplement G, 1985	5368	Supplement G, 1985
5276-4	Supplement H, 1987	5316	Supplement G, 1985	5369	Supplement G, 1985
5276-5	Supplement H, 1987	5317	Supplement G, 1985	5370	Supplement G, 1985
5277	Supplement H, 1987	5318	Supplement M, 1994	5371	Supplement G, 1985
5277-1	Supplement H, 1987	5318-1	Supplement M, 1994	5372	Supplement G, 1985
5277-2	Supplement H, 1987	5319	Supplement J, 1990	5373	Supplement G, 1985
5277-3	Supplement H, 1987	5320	Supplement G, 1985	5374	Supplement G, 1985
5277-4	Supplement H, 1987	5321	Supplement G, 1985	5375	Supplement G, 1985
5277-5	Supplement H, 1987	5322	Supplement G, 1985	5376	Supplement G, 1985
5278	Supplement G, 1985	5323	Supplement G, 1985	5377	Supplement G, 1985
5279	Supplement G, 1985	5324	Supplement G, 1985	5378	Supplement G, 1985
5280	Supplement G, 1985	5325	Supplement G, 1985	5379	Supplement G, 1985
5281	Supplement G, 1985	5326	Supplement G, 1985	5380	Supplement G, 1985
5282	Supplement G, 1985	5327	Supplement G, 1985	5381	Supplement G, 1985
5283	Supplement G, 1985	5328	Supplement G, 1985	5382	Supplement G, 1985
5284	Supplement G, 1985	5329	Supplement G, 1985	5383	Supplement G, 1985
5285	Supplement G, 1985	5330	Supplement G, 1985	5384	Supplement G, 1985
5286	Supplement G, 1985	5331	Supplement G, 1985	5385	Supplement G, 1985
5286-1	Supplement G, 1985	5332	Supplement G, 1985	5386	Supplement G, 1985
5286-2	Supplement G, 1985	5333	Supplement G, 1985	5387	Supplement G, 1985
5286-3	Supplement G, 1985	5334	Supplement G, 1985	5388	Supplement G, 1985
5287	Supplement K, 1991	5335	Supplement G, 1985	5389	Supplement G, 1985
5288	Supplement K, 1991	5336	Supplement G, 1985	5390	Supplement G, 1985
5289	Supplement K, 1991	5337	Supplement G, 1985	5391	Supplement G, 1985
5290	Supplement K, 1991	5338	Supplement G, 1985	5392	Supplement G, 1985
5291	Supplement K, 1991	5339	Supplement G, 1985	5393	Supplement G, 1985
5292	Supplement L, 1993	5340	Supplement G, 1985	5394	Supplement G, 1985
5293	Supplement K, 1991	5341	Supplement G, 1985	5395	Supplement G, 1985
5294	Supplement E, 1980	5342	Supplement G, 1985	5396	Supplement G, 1985
5295	Supplement E, 1980	5343	Supplement G, 1985	5397	Supplement G, 1985
5296	Supplement E, 1980	5344	Supplement G, 1985	5398	Supplement G, 1985
5297	Supplement E, 1980	5345	Supplement G, 1985	5399	Supplement G, 1985
5298	Supplement F, 1982	5346	Supplement G, 1985	5401	Supplement G, 1985
5299	Supplement F, 1982	5347	Supplement G, 1985	5402	Supplement G, 1985
5300	Supplement E, 1980	5348	Supplement G, 1985	5403	Supplement G, 1985
5301	Supplement F, 1982	5349	Supplement G, 1985	5404	Supplement G, 1985
5302	Supplement G, 1985	5350	Supplement G, 1985	5405	Supplement G, 1985
5303	Supplement G, 1985	5351	Supplement G, 1985	5406	Supplement G, 1985
5304	Supplement G, 1985	5352	Supplement G, 1985	5407	Supplement G, 1985
5305	Supplement G, 1985	5353	Supplement G, 1985	5408	Supplement G, 1985
5306	Supplement H, 1987	5354	Supplement G, 1985	5409	Supplement G, 1985
5306-1	Supplement H, 1987	5355	Supplement G, 1985	5410	Supplement G, 1985
5306-2	Supplement H, 1987	5356	Supplement G, 1985	5411	Supplement G, 1985
5306-3	Supplement H, 1987	5359	Supplement G, 1985	5412	Supplement G, 1985
5307	Supplement J, 1990	5360	Supplement G, 1985	5413	Supplement G, 1985
5308	Supplement J, 1990	5361	Supplement G, 1985	5417	Supplement G, 1985

5418	Supplement O, 1996	5504	Supplement J, 1990	5554	Supplement M, 1994
5419	Supplement O, 1996	5505	Supplement J, 1990	5555	Supplement M, 1994
5420	Supplement H, 1987	5506	Supplement J, 1990	5556	Supplement M, 1994
5421	Supplement H, 1987	5507	Supplement J, 1990	5557	Supplement M, 1994
5424	Supplement H, 1987	5508	Supplement J, 1990	5558	Supplement M, 1994
5424-1	Supplement H, 1987	5509	Supplement J, 1990	5559	Supplement M, 1994
5424-2	Supplement H, 1987	5510	Supplement M, 1994	5560	Supplement M, 1994
5424-3	Supplement H, 1987	5511	Supplement M, 1994	5561	Supplement M, 1994
5430	Supplement J, 1990	5512	Supplement M, 1994	5562	Supplement M, 1994
5431	Supplement K, 1991	5513	Supplement M, 1994	5569	Supplement N, 1995
5432	Supplement K, 1991	5514	Supplement M, 1994	5570	Supplement N, 1995
5433	Supplement J, 1990	5515	Supplement M, 1994	5572	Supplement N, 1995
5434	Supplement J, 1990	5516	Supplement M, 1994	5573	Supplement N, 1995
5435	Supplement M, 1994	5517	Supplement M, 1994	5574	Supplement N, 1995
5436	Supplement M, 1994	5518	Supplement M, 1994	5575	Supplement N, 1995
5438	Supplement K, 1991	5519	Supplement N, 1995	5576	Supplement N, 1995
5439A	Supplement M, 1994	5520	Supplement M, 1994	5577	Supplement M, 1994
5439B	Supplement M, 1994	5521A	Supplement M, 1994	5578	Supplement M, 1994
5440	Supplement N, 1995	5521B	Supplement M, 1994	5579	Supplement M, 1994
5444	Supplement K, 1991	5522	Supplement O, 1996	5580	Supplement M, 1994
5446	Supplement K, 1991	5522-1	Supplement O, 1996	5581	Supplement N, 1995
5447	Supplement K, 1991	5522-2	Supplement O, 1996	5582	Supplement P, 1997
5448	Supplement M, 1994	5525A	Supplement M, 1994	5583	Supplement N, 1995
5457	Supplement K, 1991	5525B	Supplement M, 1994	5584	Supplement P, 1997
5459	Supplement K, 1991	5526	Supplement O, 1996	5585	Supplement N, 1995
5460	Supplement K, 1991	5526-1	Supplement O, 1996	5586	Supplement N, 1995
5463	Supplement M, 1994	5526-2	Supplement O, 1996	5587	Supplement N, 1995
5464	Supplement M, 1994	5529A	Supplement M, 1994	5588	Supplement N, 1995
5464-1	Supplement M, 1994	5529B	Supplement M, 1994	5589	Supplement N, 1995
5467	Supplement M, 1994	5530	Supplement O, 1996	5594	Supplement N, 1995
5470A	Supplement M, 1994	5530-1	Supplement O, 1996	5595	Supplement N, 1995
5470B	Supplement M, 1994	5530-2	Supplement O, 1996	5596	Supplement N, 1995
5471	Supplement M, 1994	5533	Supplement M, 1994	5597	Supplement N, 1995
5471-1	Supplement M, 1994	5534	Supplement M, 1994	5598	Supplement N, 1995
5476	Supplement M, 1994	5535	Supplement M, 1994	5599	Supplement N, 1995
5477	Supplement M, 1994	5536	Supplement M, 1994	5600	Supplement N, 1995
5478	Supplement M, 1994	5537	Supplement M, 1994	5601	Supplement N, 1995
5480	Supplement M, 1994	5538	Supplement M, 1994	5602	Supplement N, 1995
5483	Supplement M, 1994	5539	Supplement M, 1994	5603	Supplement N, 1995
5484	Supplement M, 1994	5540	Supplement M, 1994	5604	Supplement N, 1995
5487	Supplement M, 1994	5541	Supplement M, 1994	5605	Supplement N, 1995
5490	Supplement O, 1996	5542	Supplement M, 1994	5606	Supplement N, 1995
5491	Supplement O, 1996	5543	Supplement M, 1994	5607	Supplement N, 1995
5492	Supplement O, 1996	5544	Supplement M, 1994	5608	Supplement N, 1995
5493	Supplement O, 1996	5546	Supplement M, 1994	5609	Supplement N, 1995
5495	Supplement K, 1991	5547	Supplement M, 1994	5610	Supplement N, 1995
5498	Supplement J, 1990	5548	Supplement M, 1994	5611	Supplement N, 1995
5499	Supplement J, 1990	5549	Supplement M, 1994	5612	Supplement N, 1995
5500	Supplement J, 1990	5550	Supplement M, 1994	5613	Supplement N, 1995
5501	Supplement J, 1990	5551	Supplement M, 1994	5614	Supplement N, 1995
5502	Supplement J, 1990	5552	Supplement M, 1994	5615	Supplement N, 1995
5503	Supplement J, 1990	5553	Supplement M, 1994	5616	Supplement N, 1995

5617	Supplement N, 1995	5662	New edition, 1998
5618	Supplement N, 1995	5663	New edition, 1998
5619	Supplement N, 1995	5664	New edition, 1998
5620	Supplement N, 1995	5665	New edition, 1998
5621	Supplement N, 1995	5666	New edition, 1998
5622	Supplement N, 1995	5668	New edition, 1998
5623	Supplement N, 1995	5669	New edition, 1998
5624	Supplement N, 1995	5670	New edition, 1998
5625	Supplement O, 1996	5671	New edition, 1998
5627	Supplement O, 1996	5672	New edition, 1998
5628	New edition, 1998	5673	New edition, 1998
5630A	Supplement M, 1994	5674	New edition, 1998
5630B	Supplement M, 1994	5675	New edition, 1998
5631	Supplement O, 1996	5676	New edition, 1998
5632	Supplement O, 1996	5677	New edition, 1998
5632-1	Supplement O, 1996	5678	New edition, 1998
5632-2	Supplement O, 1996	5679	New edition, 1998
5633	Supplement O, 1996	5680	New edition, 1998
5633-1	Supplement O, 1996	5681	New edition, 1998
5633-2	Supplement O, 1996	5683	New edition, 1998
5634	Supplement O, 1996	5684	New edition, 1998
5634-1	Supplement O, 1996	5685	New edition, 1998
5634-2	Supplement O, 1996	5686	New edition, 1998
5635	Supplement O, 1996	5840	New edition, 1998
5635-1	Supplement O, 1996	5841	New edition, 1998
5635-2	Supplement O, 1996		
5636	Supplement O, 1996		
5636-1	Supplement O, 1996		
5636-2	Supplement O, 1996		
5637	Supplement O, 1996		
5637-1	Supplement O, 1996		
5637-2	Supplement O, 1996		
5638	New edition, 1998		
5639	Supplement P, 1997		
5640	New edition, 1998		
5641	New edition, 1998		
5643	New edition, 1998		
5645	New edition, 1998		
5646	New edition, 1998		
5647	New edition, 1998		
5648	New edition, 1998		
5649	New edition, 1998		
5650	New edition, 1998		
5651	New edition, 1998		
5652	New edition, 1998		
5653	New edition, 1998		
5655	New edition, 1998		
5656	New edition, 1998		
5657	New edition, 1998		
5658	New edition, 1998		
5659	New edition, 1998		
5661	New edition, 1998		

2 Dessins originaux

2 Symbol originals



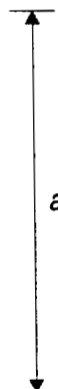
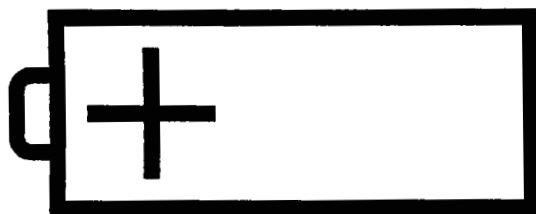
5001

Pile ou accumulateur, symbole général

Battery, general

$$x = 1,00a$$

$$y = 0,80a$$



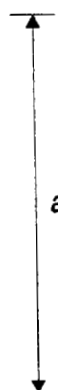
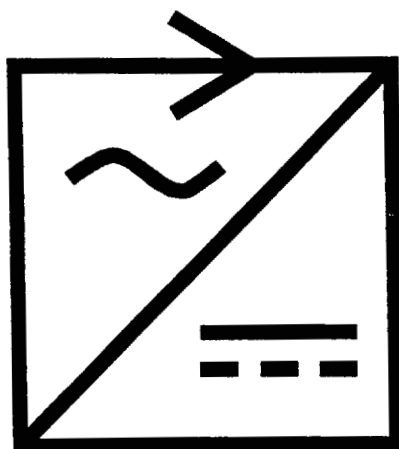
5002

Position des piles ou accumulateurs

Positioning of cell

$$x = 1,40a$$

$$y = 0,54a$$



5003

Convertisseur alternatif/continu,
redresseur, alimentation de substitutionAC/DC-converter, rectifier, substitute
power supply

$$x = 1,04a$$

$$y = 1,16a$$



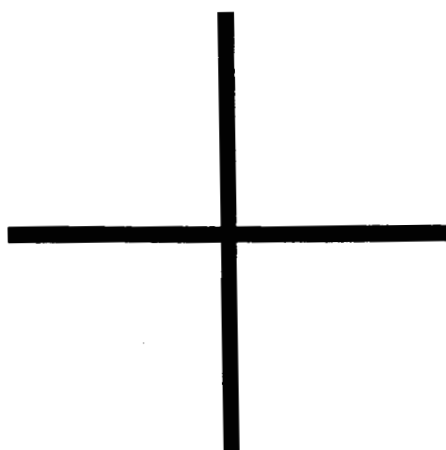
5004

Variabilité

Variability

$$x = 1,40a$$

$$y = 0,42a$$



5005

Plus; polarité positive

Plus; positive polarity

$$x = 1,16a$$

$$y = 1,16a$$



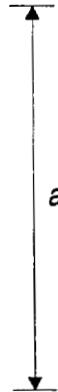
5006

Moins; polarité négative

Minus; negative polarity

$$x = 1,16a$$

$$y = 0,04a$$



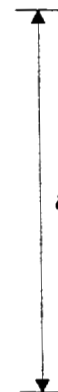
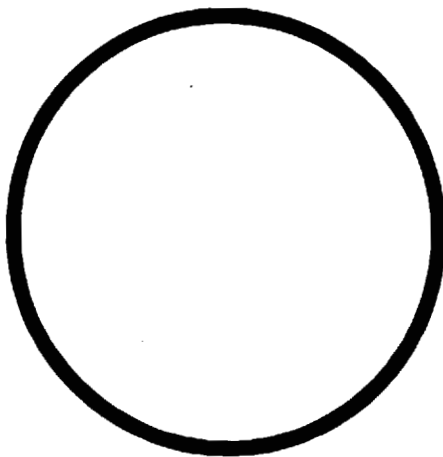
5007

Marche (mise sous tension)

"ON" (power)

$x = 0,04a$

$y = 1,14a$



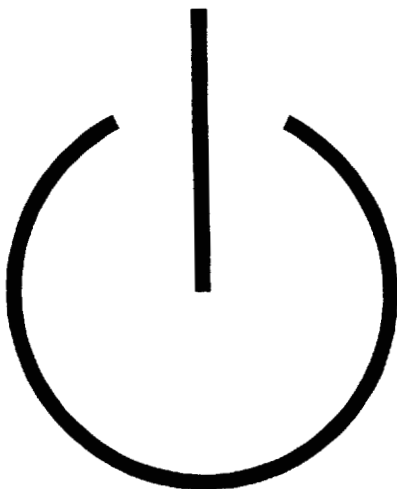
5008

Arrêt (mise hors tension)

"OFF" (power)

$x = 1,17a$

$y = 1,17a$



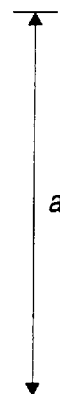
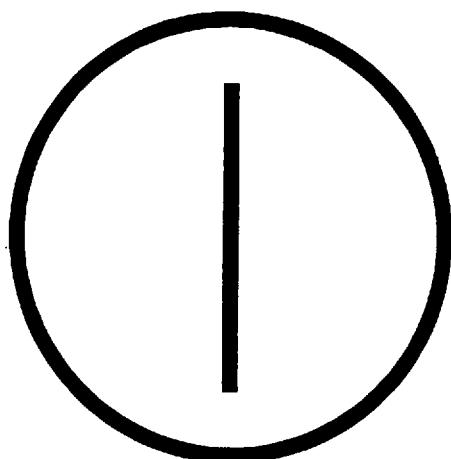
5009

Attente

Stand-by

$x = 1,04a$

$y = 1,26a$



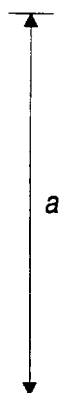
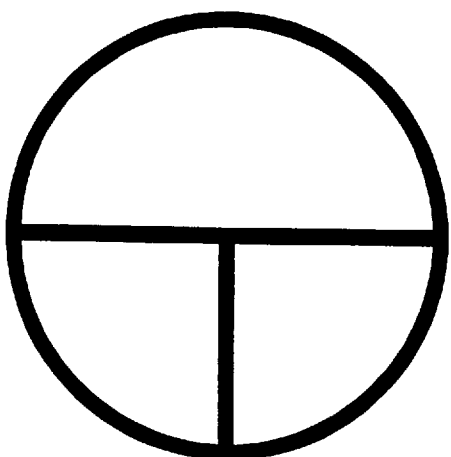
5010

Marche-arrêt (deux positions stables)

"ON"/"OFF" (push-push)

$$x = 1,17a$$

$$y = 1,17a$$



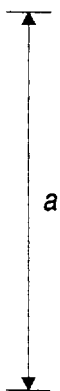
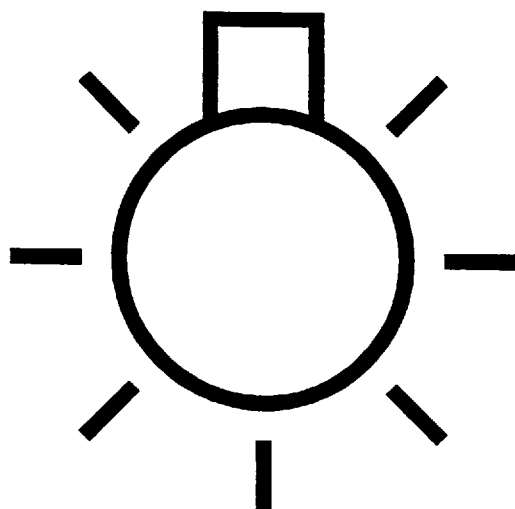
5011

Marche-arrêt (bouton poussoir)

"ON"/"OFF" (push button)

$$x = 1,17a$$

$$y = 1,17a$$



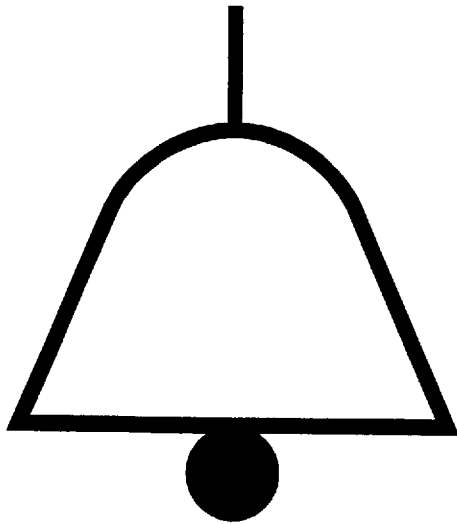
5012

Lampe; éclairage; illumination

Lamp; lighting; illumination

$$x = 1,34a$$

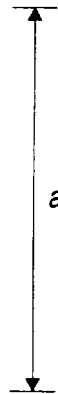
$$y = 1,32a$$



5013

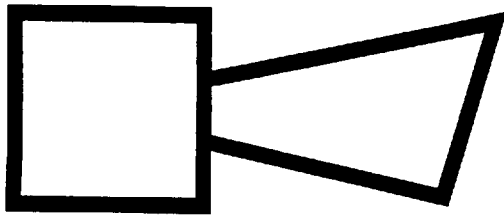
Sonnerie

Bell



$$x = 1,20a$$

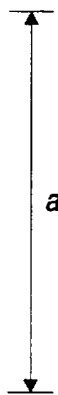
$$y = 1,34a$$



5014

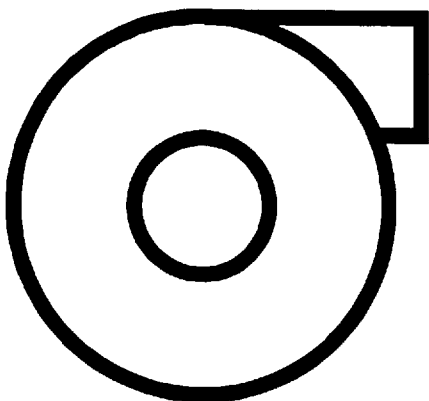
Avertisseur

Horn



$$x = 1,32a$$

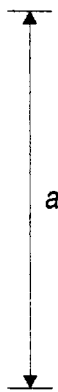
$$y = 0,54a$$



5015

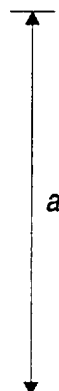
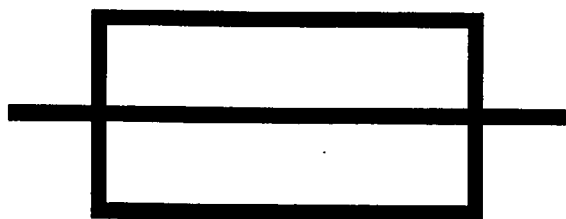
Ventilateur (soufflerie, turbine, etc.)

Air impeller (blower, fan, etc.)



$$x = 1,14a$$

$$y = 1,05a$$



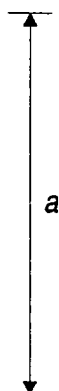
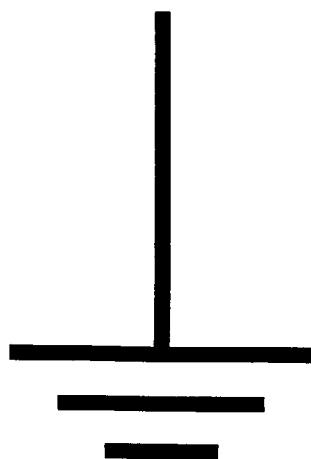
5016

Coupe-circuit; fusible

Fuse

$$x = 1,48a$$

$$y = 0,54a$$



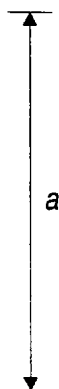
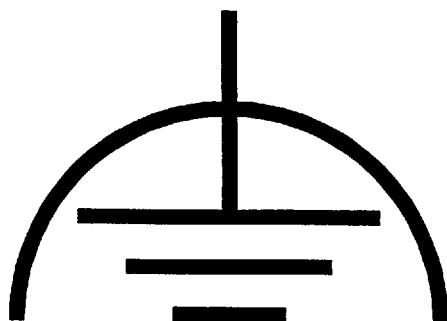
5017

Terre

Earth (ground)

$$x = 0,80a$$

$$y = 1,17a$$



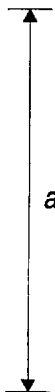
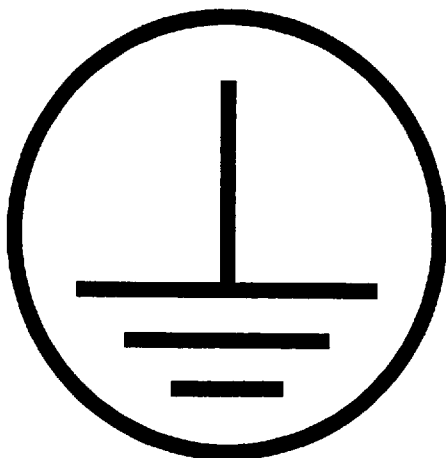
5018

Terre sans bruit

Noiseless (clean) earth (ground)

$$x = 1,17a$$

$$y = 0,80a$$



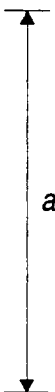
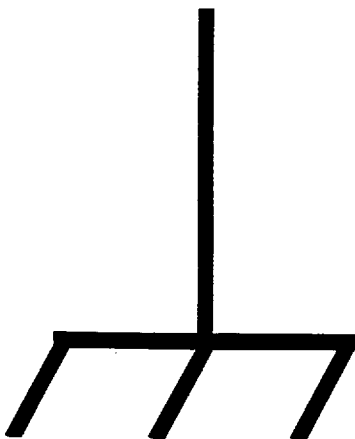
5019

Terre de protection

Protective earth (ground)

$x = 1,17a$

$y = 1,17a$



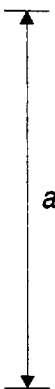
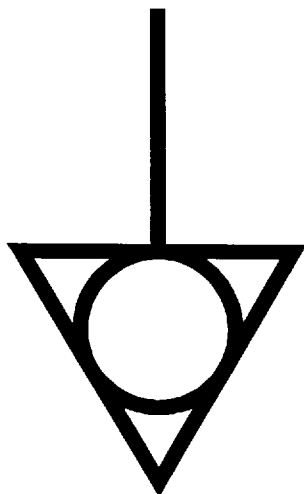
5020

Masse ou châssis

Frame or chassis

$x = 0,92a$

$y = 1,12a$



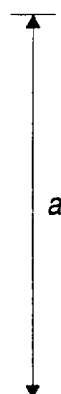
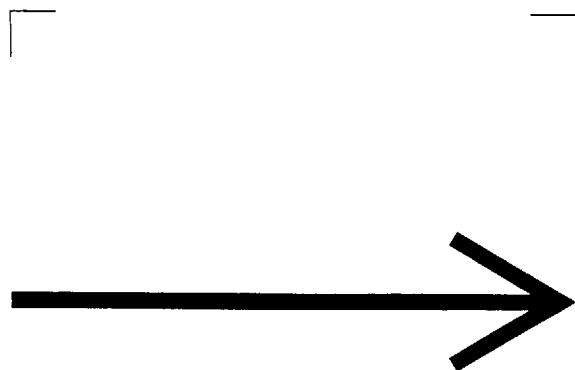
5021

Équipotentialité

Equipotentiality

$x = 0,80a$

$y = 1,30a$



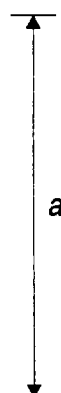
5022

Déplacement dans un sens

Movement in one direction

$$x = 1,50a$$

$$y = 0,36a$$



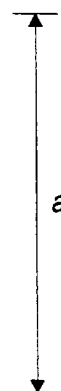
5023

Déplacement dans les deux sens

Movement in both directions

$$x = 1,50a$$

$$y = 0,36a$$



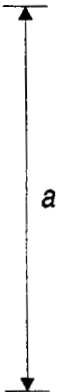
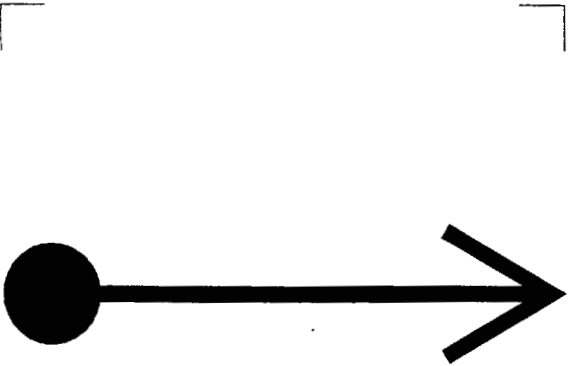
5024

Déplacement limité dans les deux sens

Movement limited in both directions

$$x = 1,37a$$

$$y = 0,50a$$



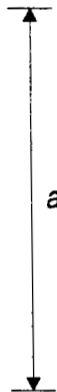
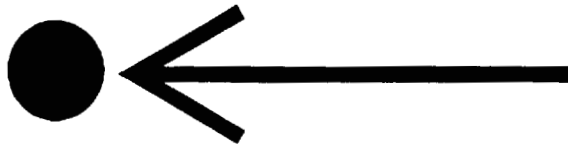
5025

Effet ou action à partir d'un point de référence

Effect or action away from a reference point

$$x = 1,50a$$

$$y = 0,36a$$



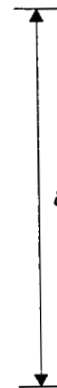
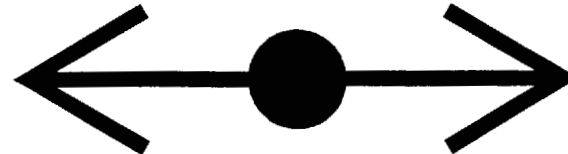
5026

Effet ou action vers un point de référence

Effect or action towards a reference point

$$x = 1,50a$$

$$y = 0,36a$$



5027

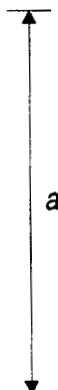
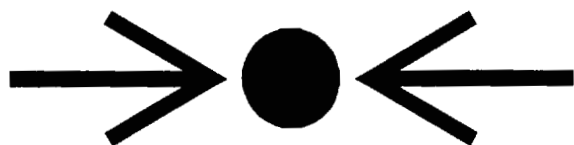
Effet ou action dans les deux sens à partir d'un point de référence

Effect or action in both directions away from a reference point

$$x = 1,50a$$

$$y = 0,36a$$





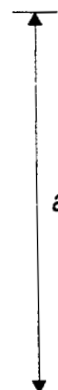
5028

Effet ou action dans les deux sens vers un point de référence

Effect or action in both directions towards a reference point

$$x = 1,50a$$

$$y = 0,36a$$



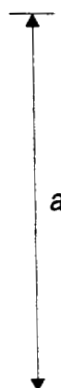
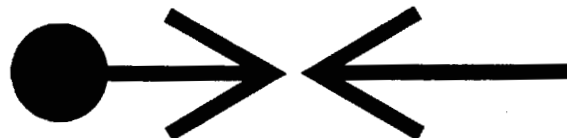
5029

Effet ou action non simultanés à partir de et vers un point de référence

Non-simultaneous effect or action away from and towards a reference point

$$x = 1,50a$$

$$y = 0,36a$$



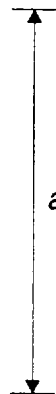
5030

Effet ou action simultanés à partir de et vers un point de référence

Simultaneous effect or action away from and towards a reference point

$$x = 1,48a$$

$$y = 0,36a$$



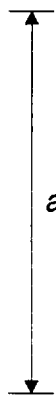
5031

Courant continu

Direct current

$$x = 1,40a$$

$$y = 0,30a$$



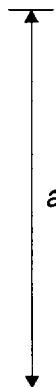
5032

Courant alternatif

Alternating current

$$x = 1,49a$$

$$y = 0,40a$$



5033

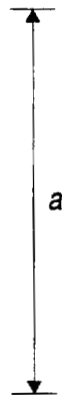
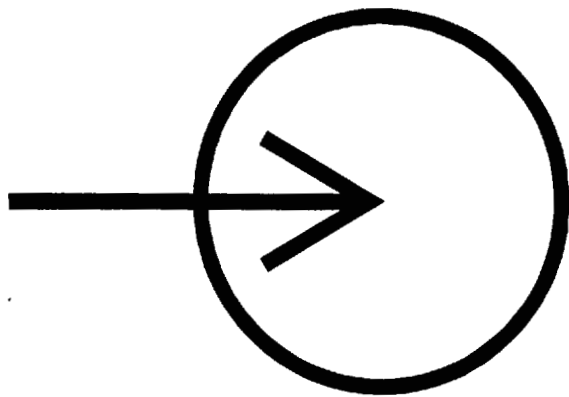
Courant continu et alternatif

Both direct and alternating current

$$x = 1,28a$$

$$y = 0,50a$$





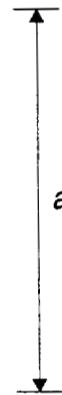
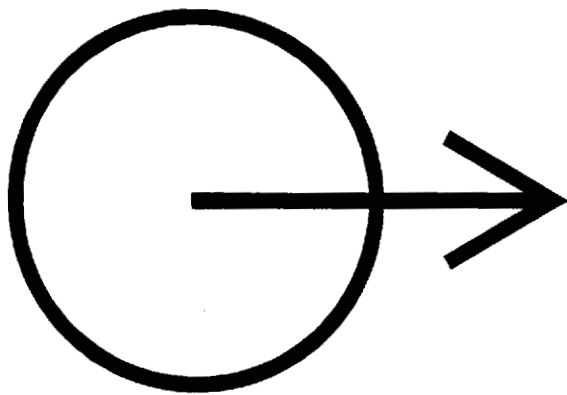
5034

Entrée

Input

$x = 1,49a$

$y = 1,00a$



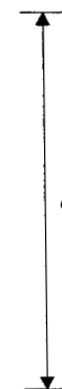
5035

Sortie

Output

$x = 1,49a$

$y = 1,00a$



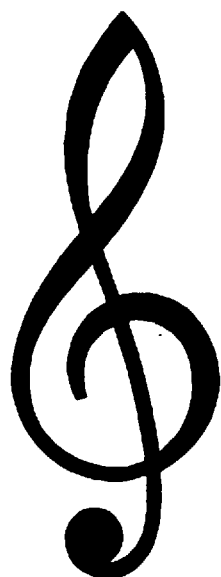
5036

Tension dangereuse

Dangerous voltage

$x = 0,50a$

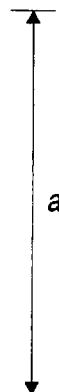
$y = 1,26a$



5037

Réglage de sons aigus

Treble control



$$x = 0,56a$$

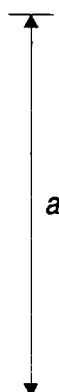
$$y = 1,49a$$



5038

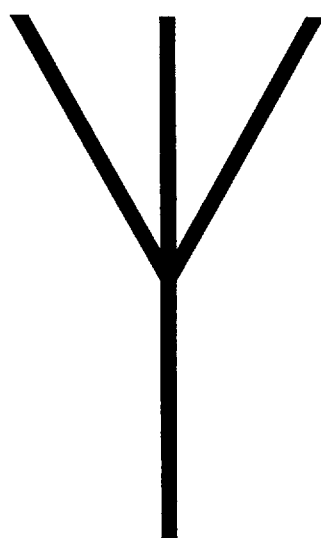
Réglage de sons graves

Bass control



$$x = 0,96a$$

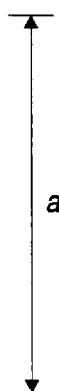
$$y = 1,22a$$



5039

Antenne

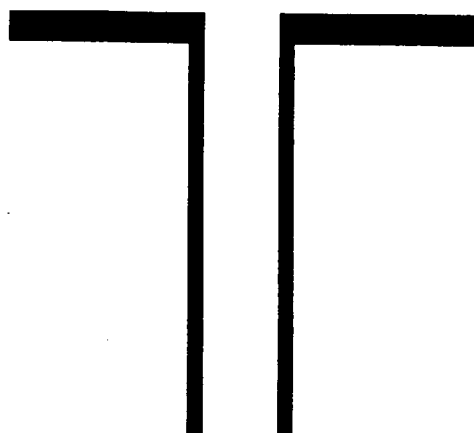
Aerial (USA: Antenna)



$$x = 0,84a$$

$$y = 1,38a$$





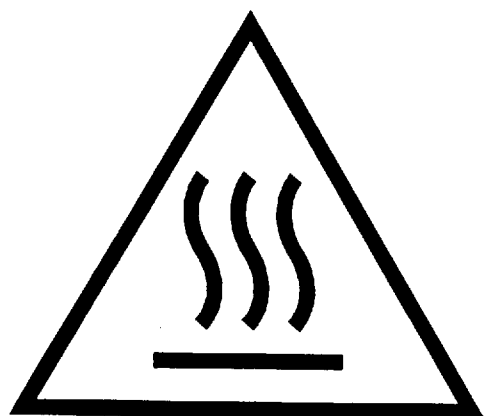
5040

Doublet

Dipole

$x = 1,24a$

$y = 1,10a$



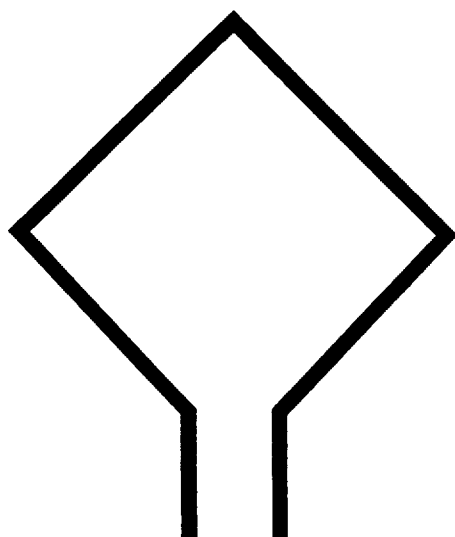
5041

Attention, surface très chaude

Caution, hot surface

$x = 1,26a$

$y = 1,08a$



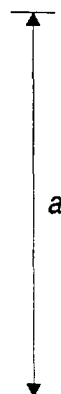
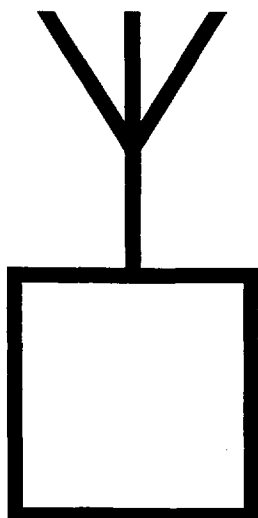
5042

Cadre

Frame aerial (USA: Loop antenna)

$x = 1,20a$

$y = 1,40a$

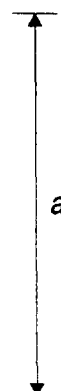
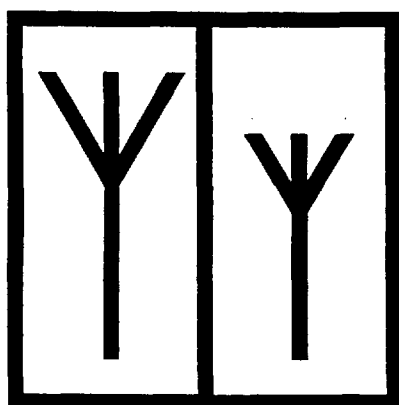


5043

Adaptateur; radiorécepteur**Tuner; radio receiver**

$$x = 0,68a$$

$$y = 1,34a$$

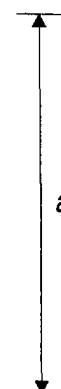
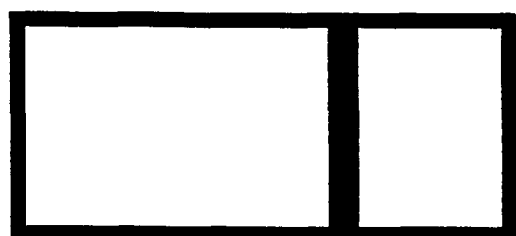


5044

**Atténuation du niveau des signaux
(local/distance)****Signal strength attenuation (local/distant)**

$$x = 1,04a$$

$$y = 1,04a$$

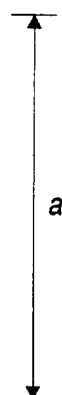
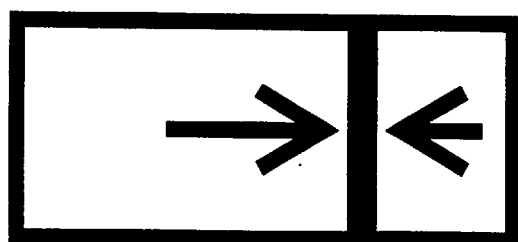


5045

Accord**Tuning**

$$x = 1,34a$$

$$y = 0,60a$$



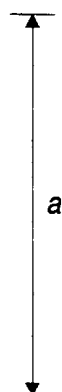
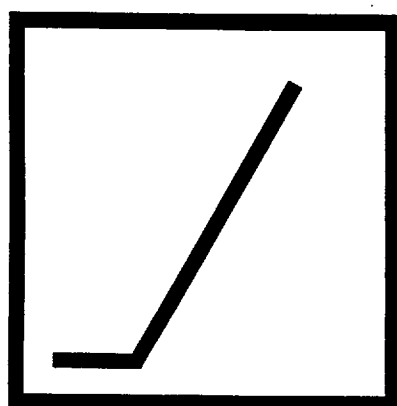
5046

Commande automatique d'accord (de fréquence)

Automatic frequency control

$x = 1,36a$

$y = 0,60a$



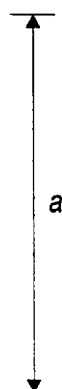
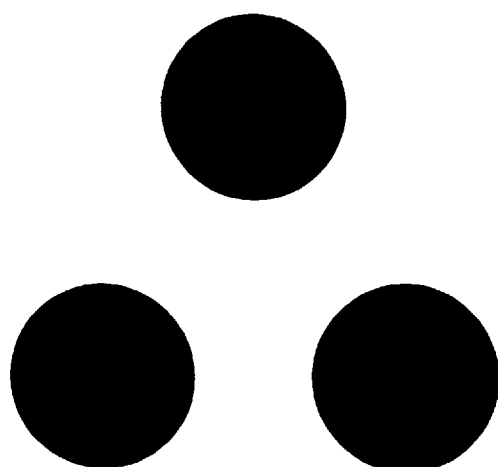
5047

Silencieux

Muting (USA: Squelch)

$x = 1,04a$

$y = 1,04a$



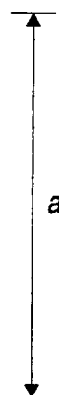
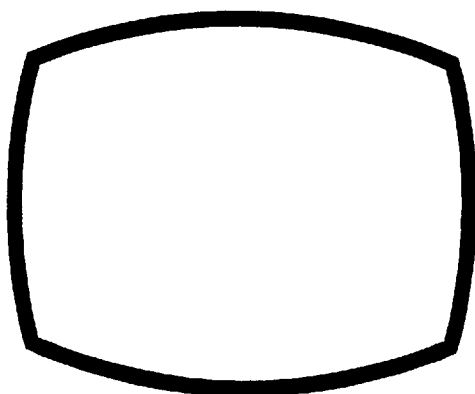
5048

Couleur (symbole distinctif)

Colour (qualifying symbol)

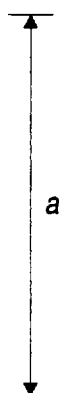
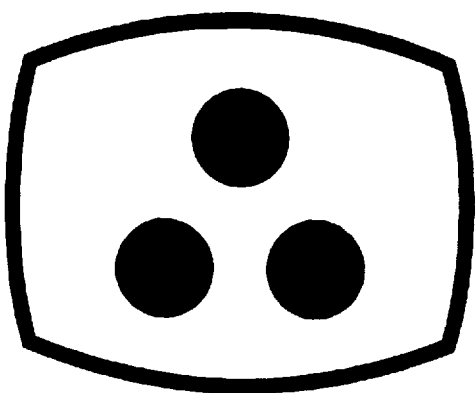
$x = 1,30a$

$y = 1,20a$

**5049****Télévision; vidéo****Television; video**

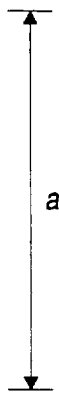
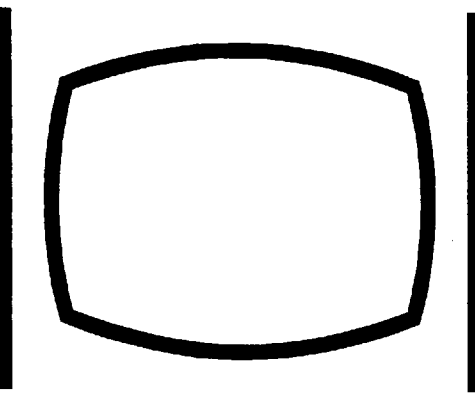
$$x = 1,25a$$

$$y = 1,00a$$

**5050****Télévision en couleur****Colour television**

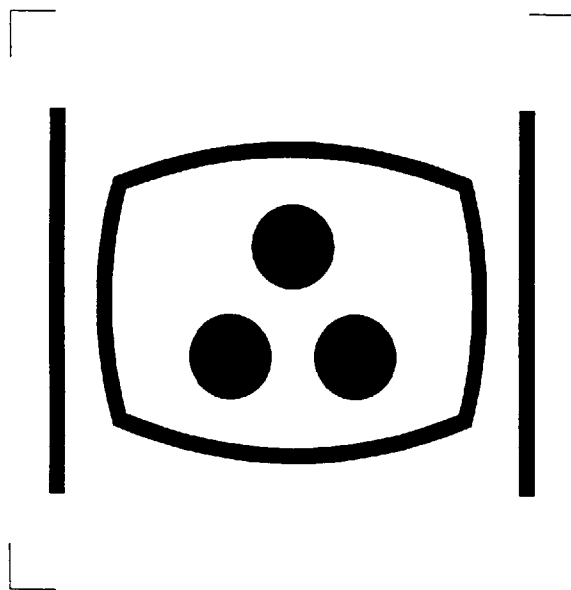
$$x = 1,25a$$

$$y = 1,00a$$

**5051****Dispositif de contrôle visuel d'image****Television monitor**

$$x = 1,29a$$

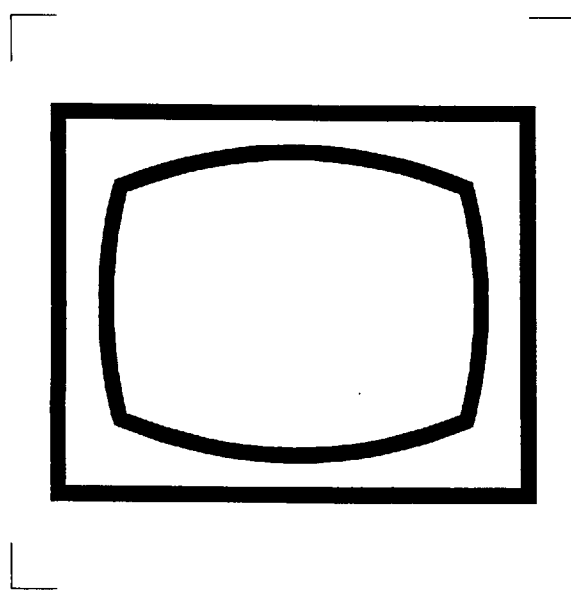
$$y = 1,00a$$



5052

Dispositif de contrôle visuel d'image en couleur

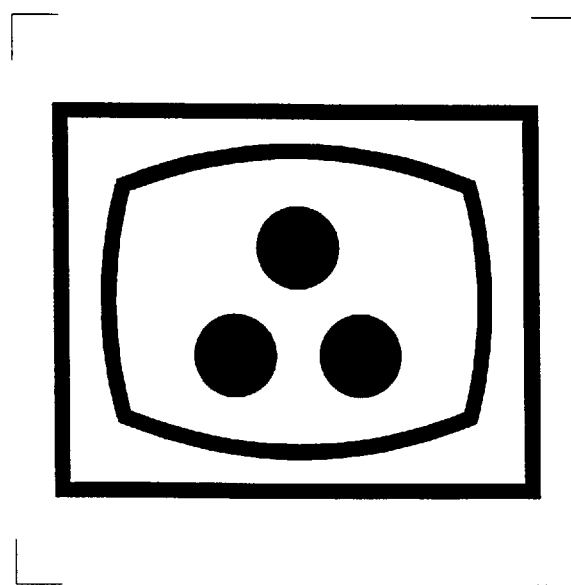
Colour television monitor

 a $x = 1,29a$ $y = 1,00a$ 

5053

Récepteur de télévision

Television receiver

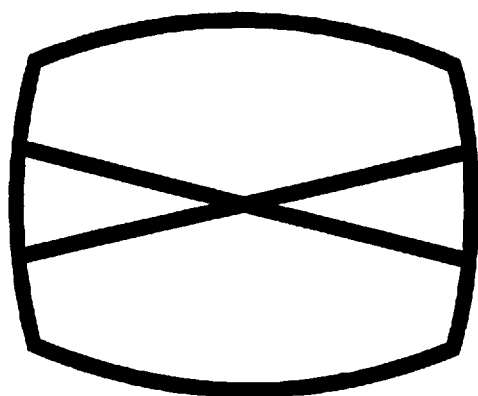
 a $x = 1,29a$ $y = 1,04a$ 

5054

Récepteur de télévision en couleur

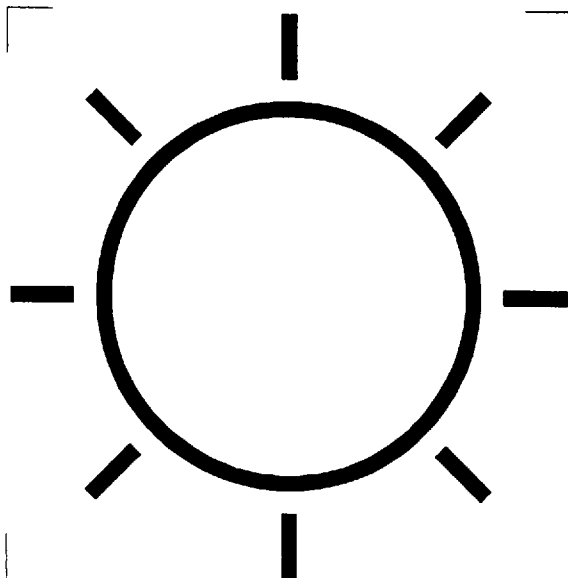
Colour television receiver

 a $x = 1,29a$ $y = 1,04a$

**5055****Concentration****Focus**

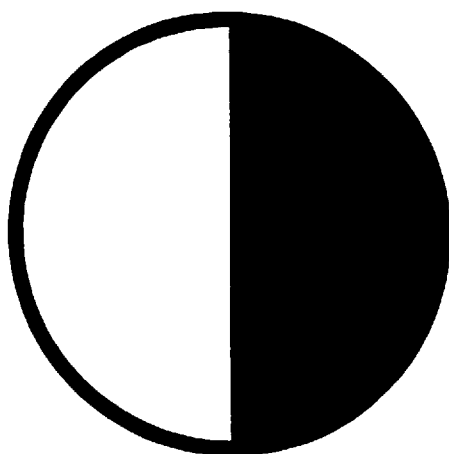
$$x = 1,25a$$

$$y = 1,00a$$

**5056****Luminosité; brilliance****Brightness; brilliance**

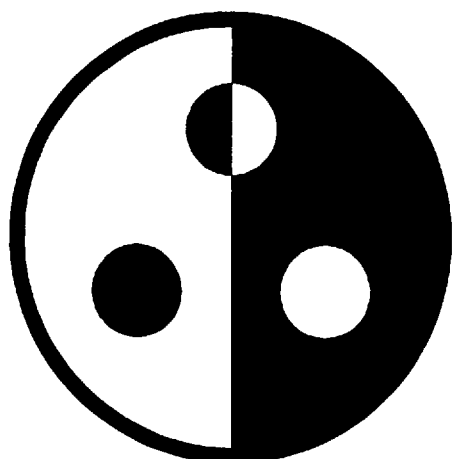
$$x = 1,48a$$

$$y = 1,48a$$

**5057****Contraste****Contrast**

$$x = 1,17a$$

$$y = 1,17a$$



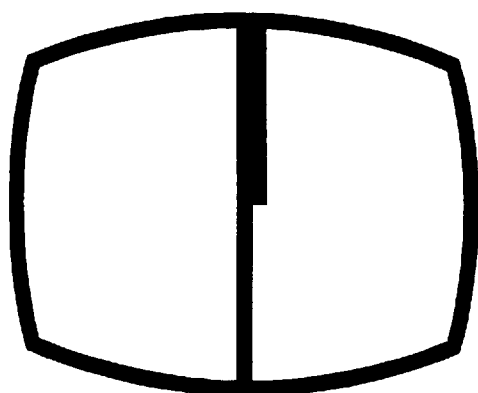
5058

Saturation de couleur

Colour saturation

$$x = 1,17a$$

$$y = 1,17a$$



5059

Souligneur de contours

Crispener

$$x = 1,25a$$

$$y = 1,00a$$



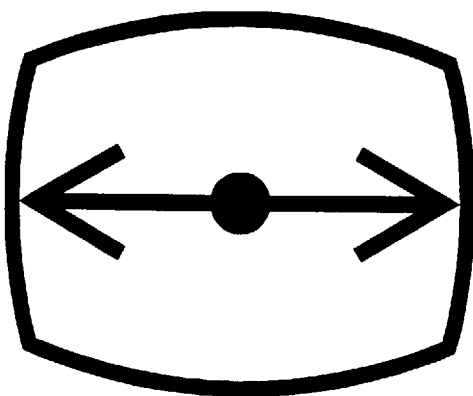
5060

Teinte

Hue

$$x = 1,38a$$

$$y = 0,42a$$



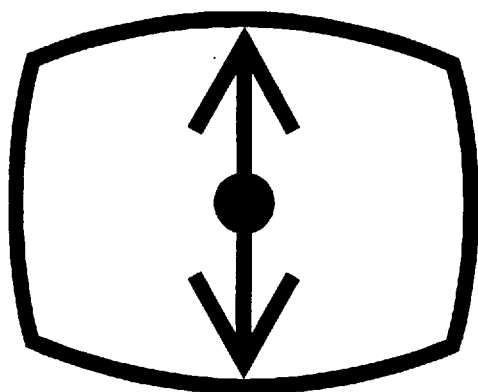
5061

Synchronisation horizontale

Horizontal synchronization

$$x = 1,25a$$

$$y = 1,00a$$



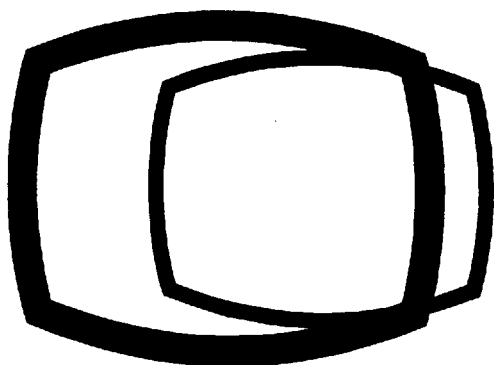
5062

Synchronisation verticale

Vertical synchronization

$$x = 1,25a$$

$$y = 1,00a$$



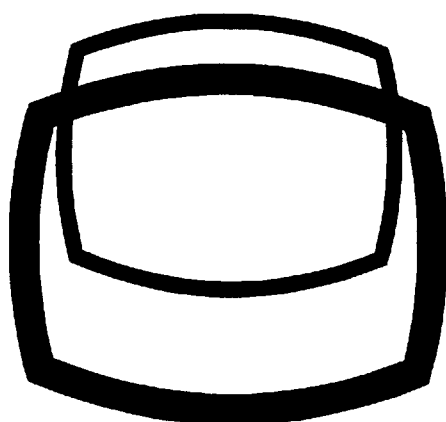
5063

Cadrage horizontal

Horizontal picture shift

$$x = 1,29a$$

$$y = 0,93a$$



5064

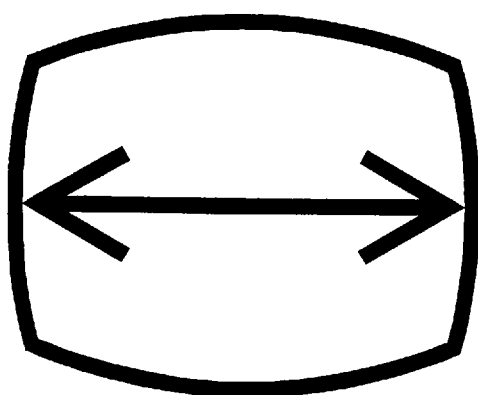
Cadrage vertical

Vertical picture shift

 a

$$x = 1,16a$$

$$y = 1,06a$$



5065

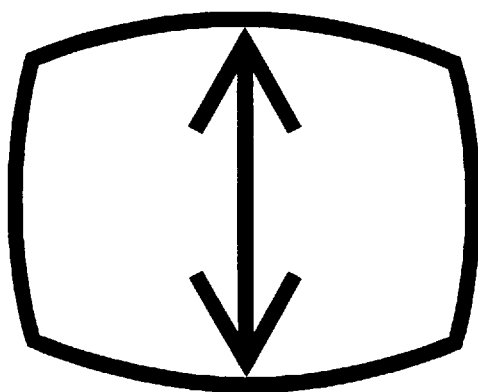
Amplitude du balayage horizontal

Horizontal picture amplitude

 a

$$x = 1,25a$$

$$y = 1,00a$$



5066

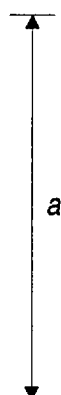
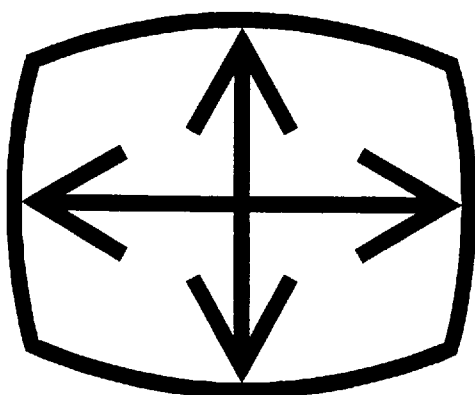
Amplitude du balayage vertical

Vertical picture amplitude

 a

$$x = 1,25a$$

$$y = 1,00a$$



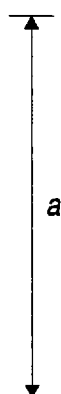
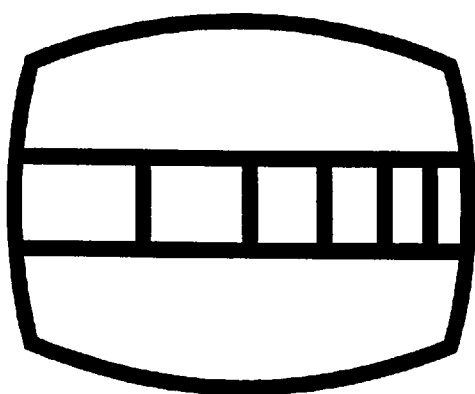
5067

Réglage dimensionnel de l'image

Picture size adjustment

$$x = 1,25a$$

$$y = 1,00a$$



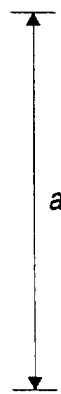
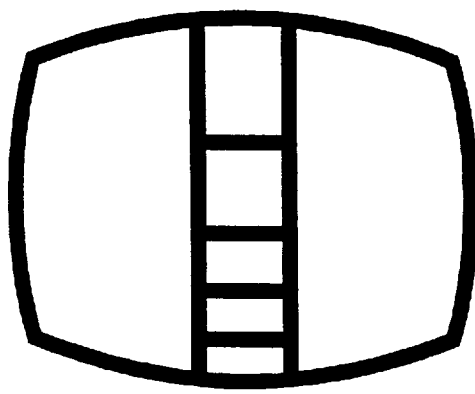
5068

Linéarité horizontale

Horizontal linearity

$$x = 1,25a$$

$$y = 1,00a$$



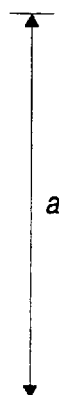
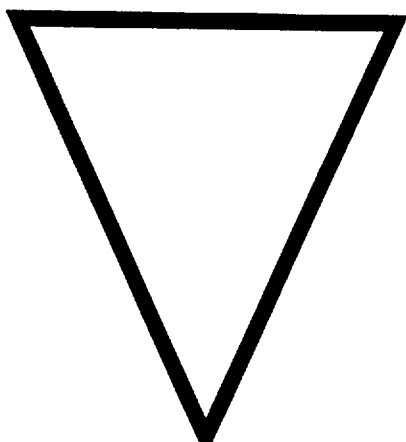
5069

Linéarité verticale

Vertical linearity

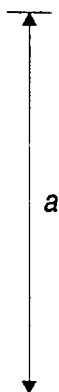
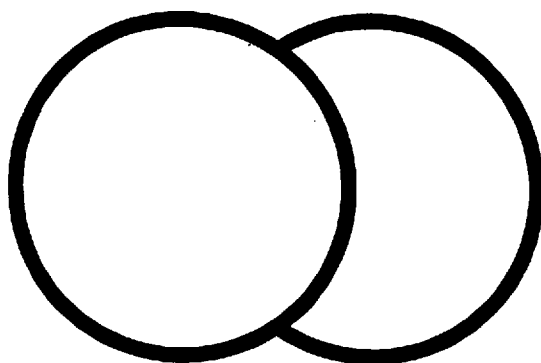
$$x = 1,25a$$

$$y = 1,00a$$

**5070****Monophonique****Monophonic**

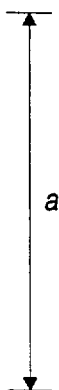
$$x = 1,06a$$

$$y = 1,14a$$

**5071****Stéréophonique****Stereophonic**

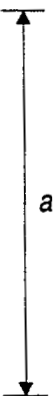
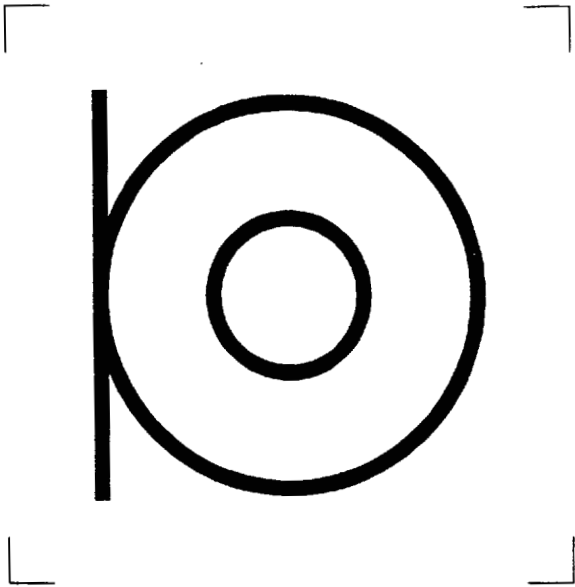
$$x = 1,40a$$

$$y = 0,88a$$

**5072****Équilibre****Balance**

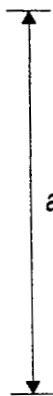
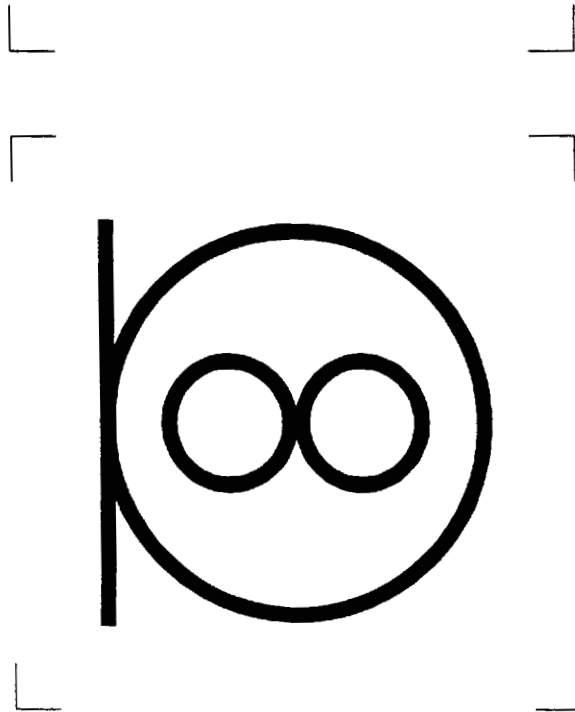
$$x = 1,38a$$

$$y = 0,42a$$



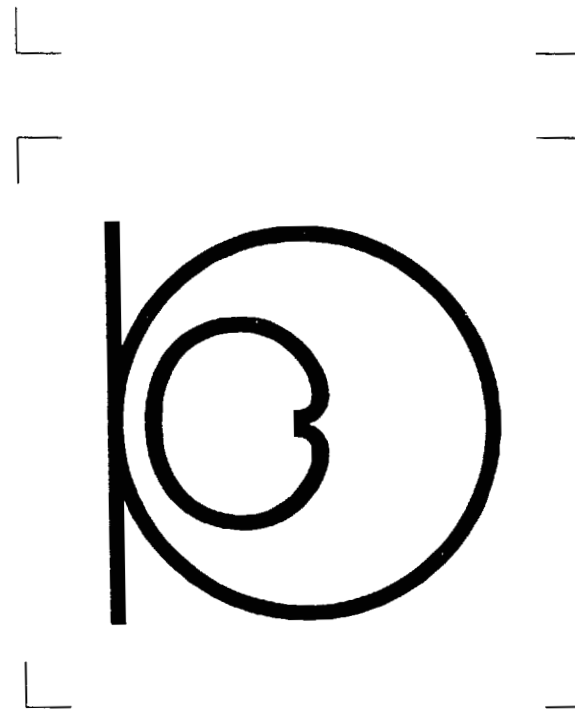
5073
Microphone omnidirectionnel
Omnidirectional microphone

$x = 1,04a$
 $y = 1,06a$



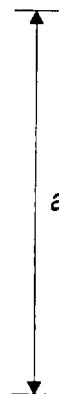
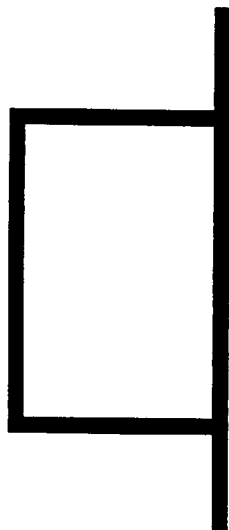
5074
Microphone bidirectionnel
Bi-directional microphone

$x = 1,04a$
 $y = 1,06a$



5075
Microphone unidirectionnel ou cardioïde
Unidirectional or cardioid microphone

$x = 1,04a$
 $y = 1,06a$



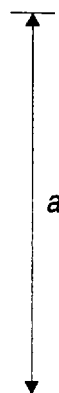
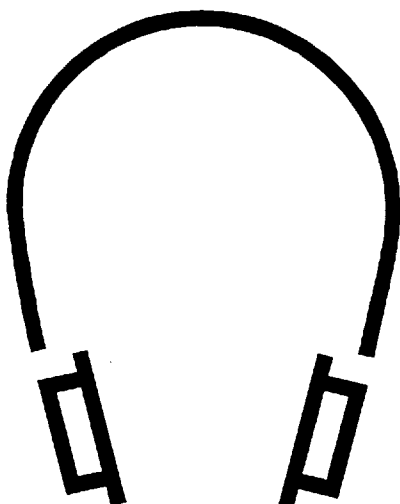
5076

Écouteur

Earphone

$$x = 0,58a$$

$$y = 1,36a$$



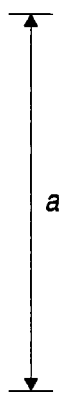
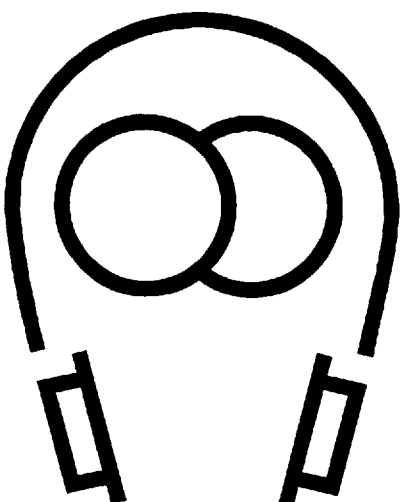
5077

Casque téléphonique

Headphones

$$x = 1,04a$$

$$y = 1,30a$$



5078

Casque stéréophonique

Stereophonic headphones

$$x = 1,04a$$

$$y = 1,30a$$



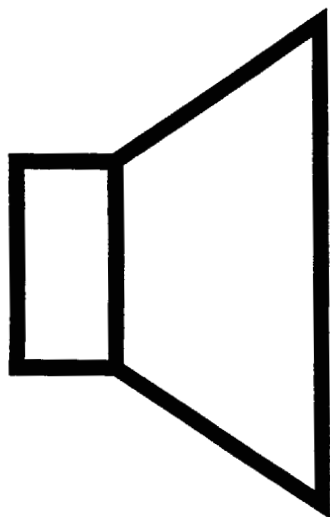
5079

Combiné téléphonique type casque

Headset

$$x = 0,96a$$

$$y = 1,40a$$



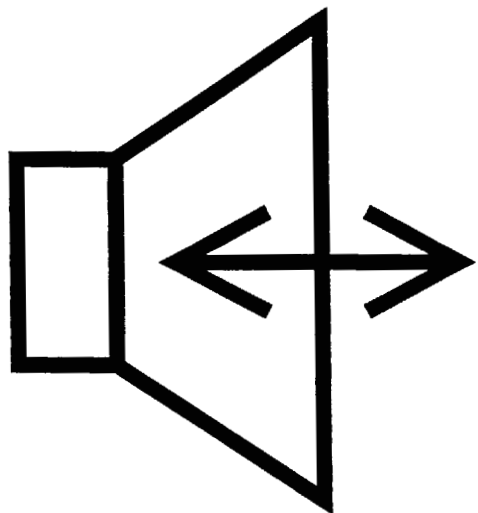
5080

Haut-parleur

Loudspeaker

$$x = 0,84a$$

$$y = 1,34a$$



5081

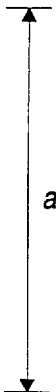
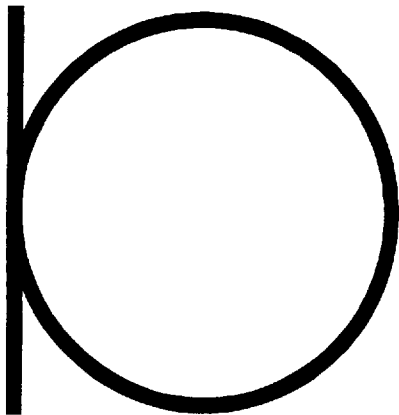
Haut-parleur/microphone

Loudspeaker/microphone

$$x = 1,24a$$

$$y = 1,33a$$





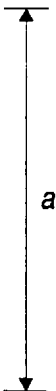
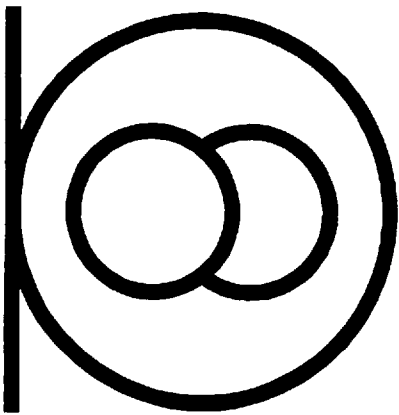
5082

Microphone

Microphone

$$x = 1,04a$$

$$y = 1,06a$$



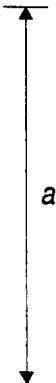
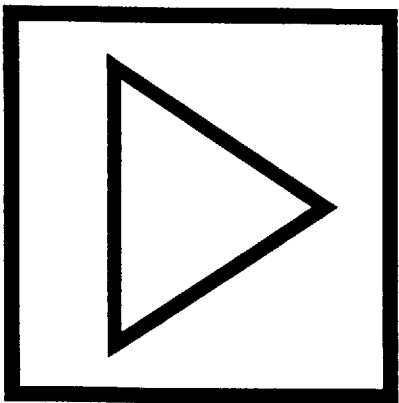
5083

Microphone stéréophonique

Stereophonic microphone

$$x = 1,04a$$

$$y = 1,06a$$



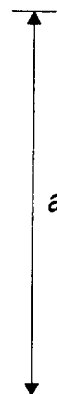
5084

Amplificateur

Amplifier

$$x = 1,04a$$

$$y = 1,04a$$



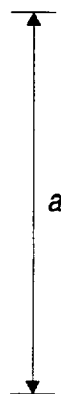
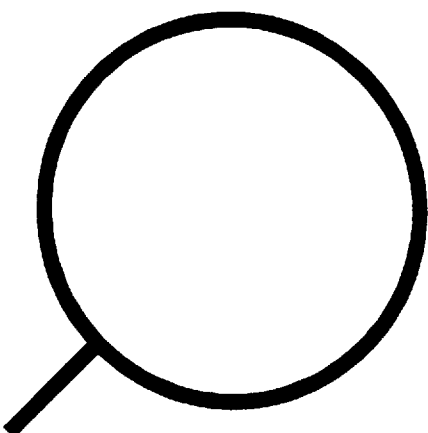
5085

Musique

Music

$$x = 1,08a$$

$$y = 1,20a$$



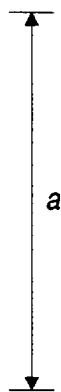
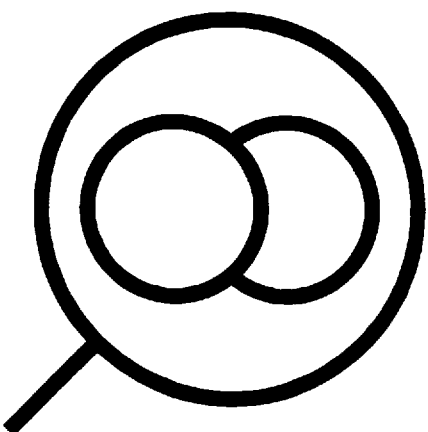
5086

Lecteur pour disques phonographiques

Pick-up for disk records

$$x = 1,14a$$

$$y = 1,14a$$



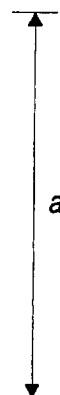
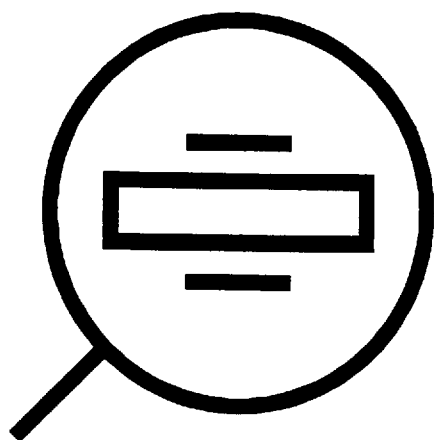
5087

Lecteur stéréophonique pour disques phonographiques

Stereophonic pick-up for disk records

$$x = 1,14a$$

$$y = 1,14a$$



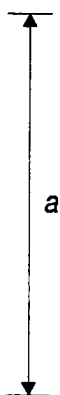
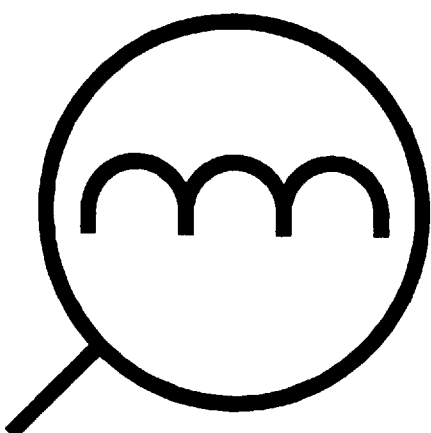
5088

Lecteur piézo-électrique, à cristal ou céramique

Piezo-electric pick-up, crystal or ceramic

$x = 1,14a$

$y = 1,14a$



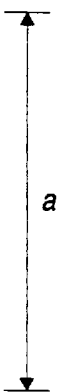
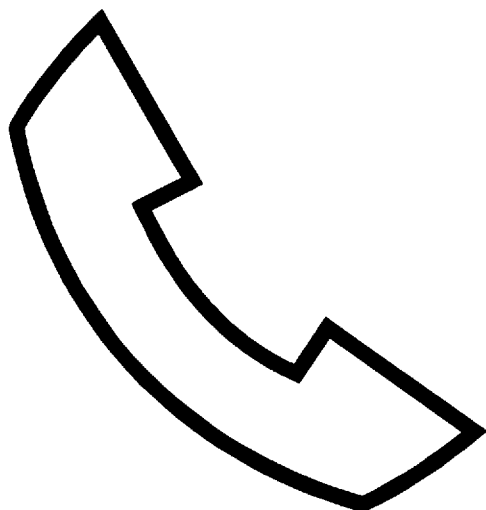
5089

Lecteur électrodynamique ou magnétodynamique

Dynamic pick-up, electro- or magneto-dynamic

$x = 1,14a$

$y = 1,14a$



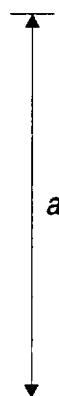
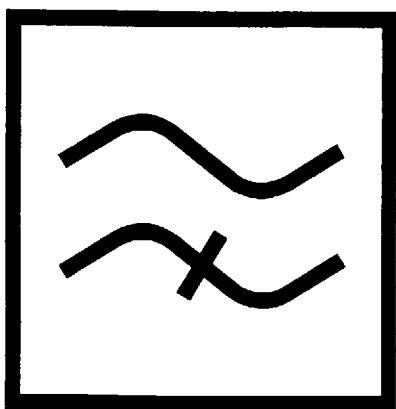
5090

Téléphone; adaptateur téléphonique

Telephone; telephone adapter

$x = 1,26a$

$y = 1,31a$



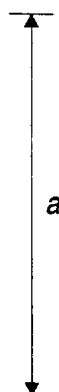
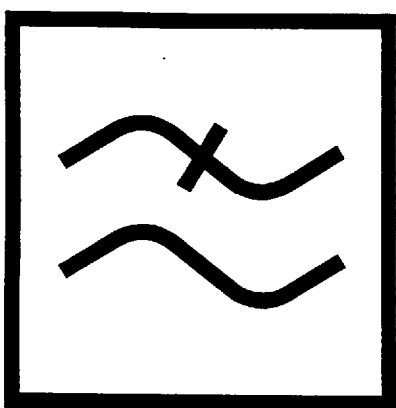
5091

Filtre passe-haut

High-pass filter

$$x = 1,04a$$

$$y = 1,04a$$



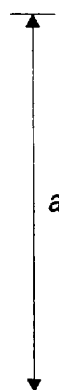
5092

Filtre passe-bas

Low-pass filter

$$x = 1,04a$$

$$y = 1,04a$$



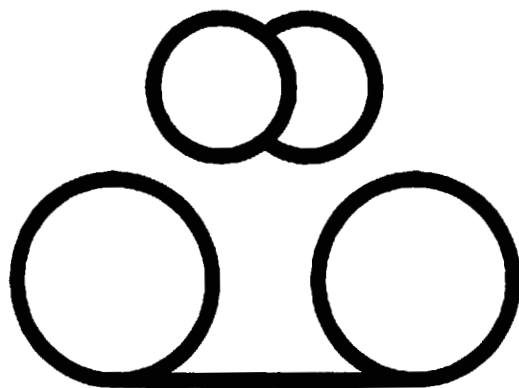
5093

Enregistreur à bande

Tape recorder

$$x = 1,36a$$

$$y = 0,56a$$



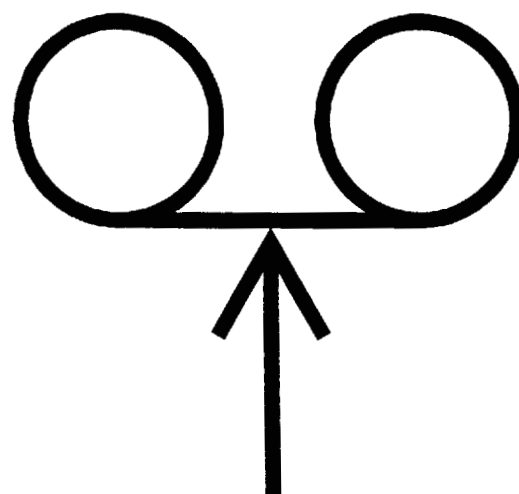
5094

**Enregistreur de son stéréophonique à
bande magnétique**

Magnetic tape stereo sound recorder

$$x = 1,36a$$

$$y = 0,98a$$



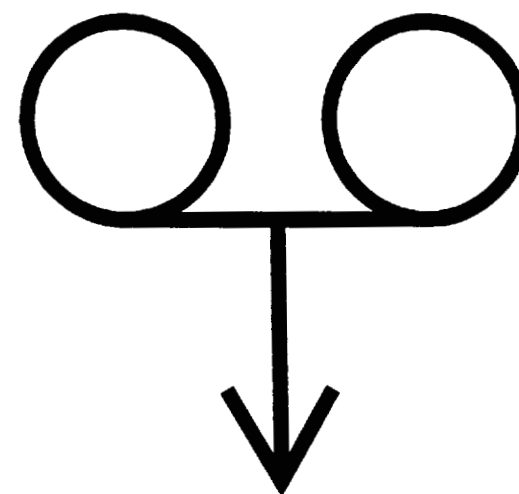
5095

Enregistrement sur bande

Recording on tape

$$x = 1,36a$$

$$y = 1,26a$$



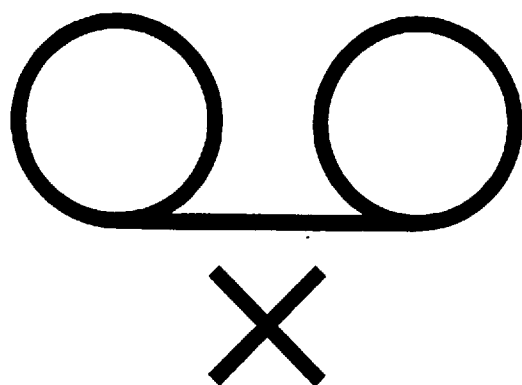
5096

Lecture de bande

Play-back or reading from tape

$$x = 1,36a$$

$$y = 1,26a$$



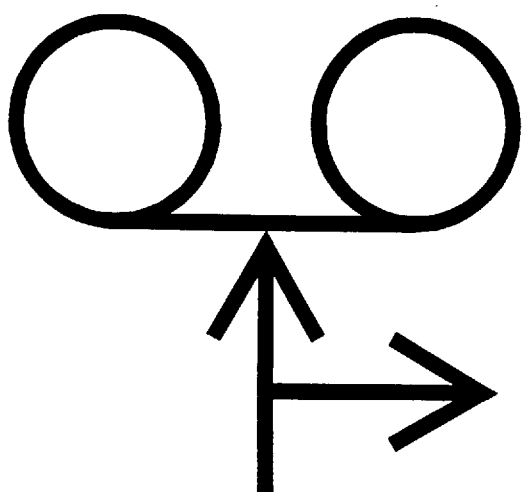
5097

Effacement de bande

Erasing from tape

$$x = 1,36a$$

$$y = 0,97a$$

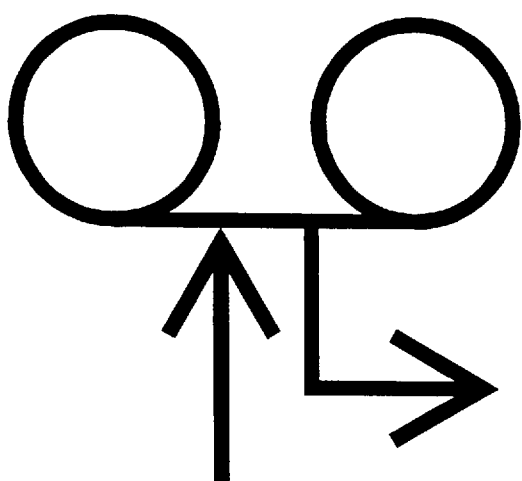


5098

Contrôle à l'entrée durant
l'enregistrementMonitoring at the input during recording
on tape

$$x = 1,36a$$

$$y = 1,26a$$

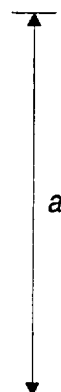
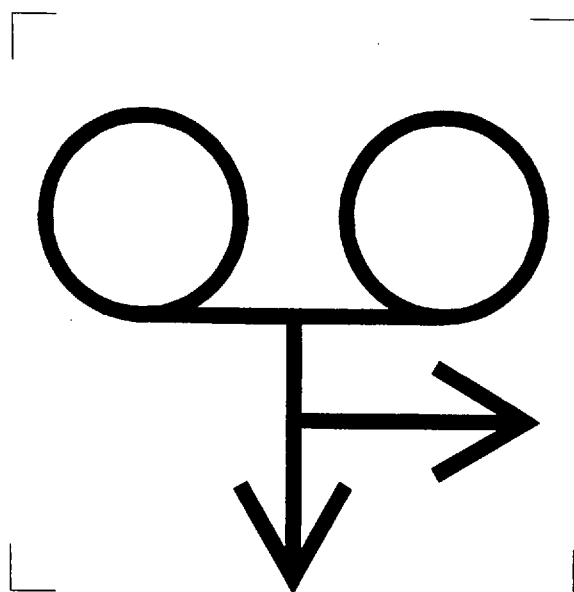


5099

Contrôle de la bande après
l'enregistrement sur la bandeMonitoring of tape after recording on
tape

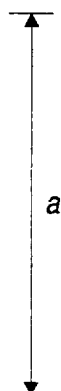
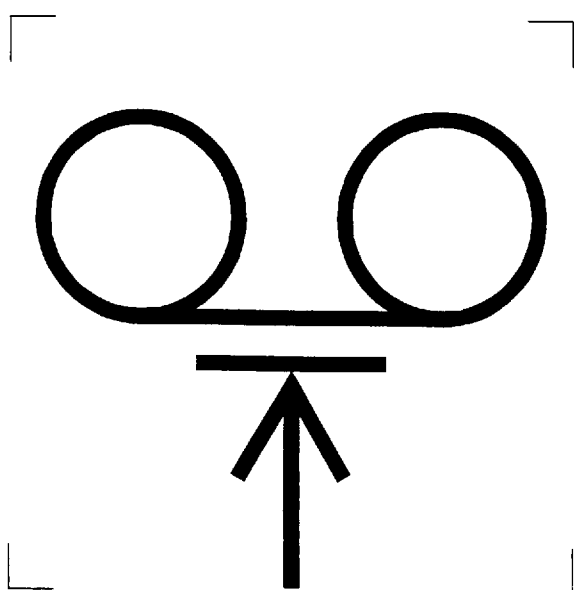
$$x = 1,36a$$

$$y = 1,24a$$

**5100****Contrôle durant la lecture d'une bande****Monitoring during play-back or reading from tape**

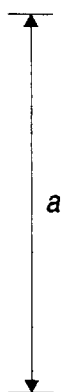
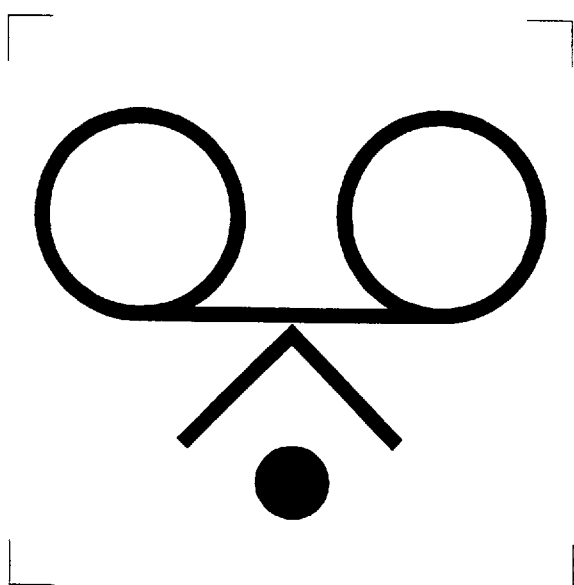
$$x = 1,36a$$

$$y = 1,28a$$

**5101****Blocage de l'enregistrement sur des enregistreurs à bande****Recording lock on tape recorders**

$$x = 1,36a$$

$$y = 1,26a$$

**5102****Marqueur d'impulsions sur des enregistreurs à bande****Pulse marker on tape recorders**

$$x = 1,36a$$

$$y = 1,24a$$