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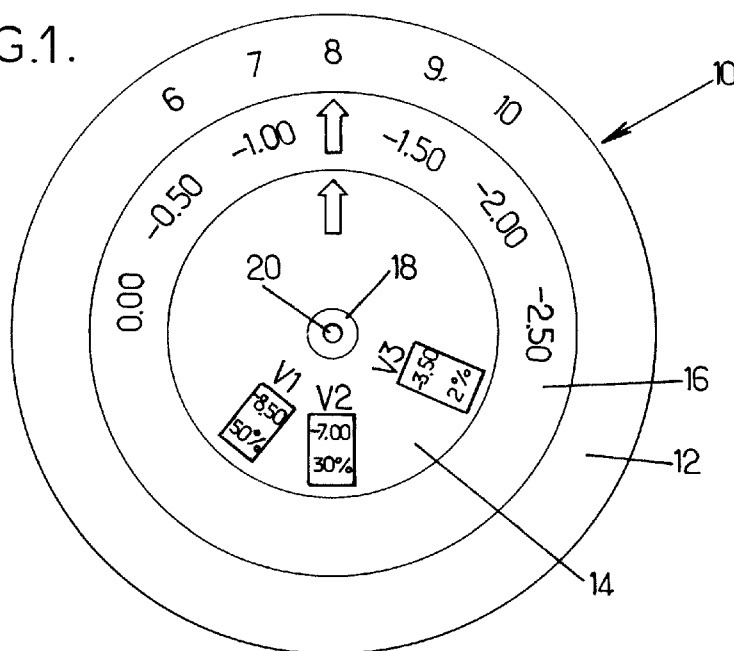
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(54) Title: AN AMETROPIA PROGRESSION INDICATING DEVICE

FIG.1.



(57) Abstract: An indicating device (10, 100) for indicating the ametropia progression of a wearer over a predetermined period of time according to at least the type of ophthalmic lens the wearer may use, wherein - the device comprises first (12, 120) and second (14, 140) members connected together in a moveable manner, - the first member (12, 120) having a first field (22, 220) including a plurality of values of input data and a second field (24, 240) including a plurality of values of output data representative of the ametropia of a wearer, - the second member (14, 140) having at least a selection mean (40, 400) and an indication mean, - the selection mean (40, 400) being arranged to select among movement of the second member (14, 140) a value of the input data corresponding to a wearer and - the indication mean (28, 26, 30, 32, 36, 38, 280, 260, 300, 320, 360, 380) being associated with a type of ophthalmic lens and arranged to indicate among movement of the second member (14, 140) the value of the output data on the first member

(12, 120) corresponding to the ametropia of the wearer after the predetermined period of time.

AN AMETROPIA PROGRESSION INDICATING DEVICE

The present invention relates to an indicating device. More particularly, the present invention relates to an
5 indicating device for indicating the ametropia progression of a wearer over a predetermined period of time according to at least the type of ophthalmic lens the wearer may use.

It is an object of the invention to provide a simple,
10 reliable and inexpensive device for indicating the ametropia progression of a wearer over a predetermined period of time according to the type of ophthalmic lens the wearer may use. Typically, the device may be used to help a user choose a type of ophthalmic lens by
15 indicating the progression of the ametropia of a wearer according to the type of ophthalmic lens the wearer may use.

For this purpose, one subject of the invention is an indicating device for indicating the ametropia
20 progression of a wearer over a predetermined period of time according to at least the type of ophthalmic lens the wearer may use, wherein

- the device comprises first and second members connected together in a moveable manner,
- 25 - the first member having a first field including a plurality of values of input data and a second field including a plurality of values of output data representative of the ametropia of a wearer,

- the second member having at least a selection mean and an indication mean,
- the selection mean being arranged to select among movement of the second member a value of the input data
5 corresponding to a wearer and

- the indication mean being associated with a type of ophthalmic lens and arranged to indicate among movement of the second member the value of the output data on the first member corresponding to the ametropia of the wearer
10 after the predetermined period of time.

It will be appreciated that the indicating device according to the invention can be used to quickly indicate the ametropia progression of a wearer. Such an indicating device may be useful to optical practitioner
15 and ophthalmic lens wearer to choose the type of ophthalmic lens to use.

According to further embodiments of the invention, the indicating device according to the invention may comprise the following features alone or in combination:

20 - the indicating device further comprises a third member connected to the first and second members in a moveable manner, the third member comprises:
a field including a plurality of values of second input data,
25 a selecting mean arranged to select among movement of the third member a value of the input data from the first member, and

an opening arranged to display at least a part of the second field of the first member among movement of the third member;

- the input data are selected among one or a combination
5 of the following data consisting of:

- the age of the first optical correction,
- the actual age of the wearer,
- the actual refraction value of the wearer,
- the ethnic group of the wearer,
- 10 - the medical treatment the wearer may use,
- the number of reading hours per day,
- the reading distance of the wearer, and
- the type of lighting the wearer may use;

- the output data are selected among one or a combination
15 of the following data consisting of:

- the ametropia value after a given period of time / at a given age,
- the risk of eye pathology,
- the risk of car accident, and
- 20 - the risk of falling.

- the selection mean and/or indication mean comprise a window dimensioned for displaying a single value of the input data and/or output data;

- the selection mean and/or indication mean comprise an
25 arrow arranged to displaying a single value of the input data and/or output data;

- the first, second and third members are connected together for rotating about an axis;

- the first, second and third members are connected together for translation about a longitudinal axis of the indicating device.

The invention will now be described with reference to the
5 accompanying drawings, in which:

- figure 1 shows a frontal view of a indicating device according to a first embodiment of the invention,
- figure 2 shows a side view of an indicating device as represented on figure 1,
- 10 ▪ figure 3 shows a frontal view of a first disc of an indicating device as represented on figure 1,
- figures 4a and 4b show a frontal view of different embodiments of second discs of an indicating device as represented on figure 1,
- 15 ▪ figure 5 shows a frontal view of a third disc of an indicating device as represented on figure 1,
- figure 6 shows a frontal view of a indicating device according to a second embodiment of the invention,
- figure 7 shows a frontal view of a first member of
20 an indicating device as represented on figure 6,
- figures 8a and 8b show a frontal view of different embodiments of second members of an indicating device as represented on figure 6, and
- figure 9 shows a frontal view of a third member of
25 an indicating device as represented on figure 6.

For reasons of clarity, the elements shown on the figures are not necessarily to scale.

The indicating device 10 represented on figures 1 and 2 is an indicating device according to a first embodiment of the invention. The indicating device 10 is for the purpose of indicating the ametropia of wearer at the age of eighteen according to the value of the ametropia at a selected age.

According to the first embodiment of the invention represented on figures to 5 the first, second and third members of the indicating device are discs.

The indicating device 10 includes a first disc 12, a second disc 14, a third disc 16 and a pin 18 for pivotally connecting the first 12, second 14 and third 16 discs together for rotation about an axis 20.

Figure 3 represents an arrangement of the upper face of the first disc 12 of an indicating device 10 as represented on figures 1 and 2. The upper face of the first disc 12 comprises a first field 22 comprising a plurality of values of an input data.

The input data may be any type of data that has an impact on the ametropia progression. The input data represented in the first field 22 may be selected among the following list consisting of:

- the age of the first optical correction,
- the ethnic group of the wearer,
- the medical treatment the wearer may use,
- the number of reading hours a day,

- the reading distance of the wearer, and
- the type of lighting the wearer may use.
- the actual age of the wearer,
- the actual refraction value of the wearer.

5

According to the embodiment of the invention represented on figure 3, the input data represented in the first field 22 represent the age of the wearer.

10 The upper face of the first disc 12 also comprises a second field 24 comprising a plurality of values of output data.

The output data may be any type of data that may be related to the ametropia of a wearer. The output data represented in the second field 24 may be selected among
15 the following list consisting of:

- the ametropia value after a given period of time, for example the ametropia at the age of eighteen,
- the risk of eye pathology,
- the risk of car accident, and
- 20 - the risk of falling.

According to the embodiment of the invention represented on figure 3, the output data represented in the second field 24 represent the ametropia value and the risk of eye pathology of the wearer at the age of eighteen.

25 The first 22 and second 24 fields comprise part of an annular region of the upper face of the first disc 12, centered on the axis 20. The second field 24 has a smaller radius than the first field 22.

Figures 4a and 4b represent two arrangements of the upper face of the second disc 14 of an indicating device 10 represented on figures 1 and 2.

The upper face of the second disc 14 represented on figure 4a comprises a first 26, second 28 and third 30 windows. The first 26, second 28, and third 30 windows are spaced from the axis 20 by a radial distance which is substantially the same as the radial distance of the second field 24 of the first disc 12. The first 26, second 28 and third 30 windows correspond to different type of ophthalmic lenses the wearer may use.

Alternatively as represented on figure 4b, the upper face of the second disc 14 may comprise a large window 32. The large window 32 is spaced from the axis 20 by a radial distance which is substantially the same as the radial distance of the second field 24 of the first disc 12. The upper face of the second disc 14 may also comprise first 34, second 36 and third 38 arrows pointing a specific part of the large window 32 in radial directions. The first 34, second 36 and third 38 arrows correspond to different type of ophthalmic lenses the wearer may use.

The upper face of the second disc 14 also comprises a fourth arrow 40 pointing to the outer circumference of the second disc 14. The fourth arrow 40 is placed on the outer part of the second disc 14.

The windows 26, 28, 30 and 32 and the arrows 34, 36, 38 correspond to indication means associated with a type of ophthalmic lens and arranged so that when the fourth arrow 40 indicates an input value, the output values

corresponding to the different ophthalmic lenses are displayed in the first 26, second 28 and third 30 windows and/or pointed by the first 34, second 36 and third 38 arrows.

- 5 As represented on figure 5, the third disc 16, comprises a single composite window 42, a field 44 and a selecting mean 46.

The single composite window 42 is spaced from the axis 20 by a radial distance which is the same as the radial
10 distance of the second field 24 of the first disc 12.

The field 44 is part of an annular region of the upper face of the third disc 16, centred on the axis 20. The field 44 comprises a plurality of values of an input data selected among the same list as the input data of the
15 first field 22 of the first disc 12.

As represented on figure 5, the selecting mean 46 may be an arrow pointing in the outer circumference of the third disc 16. Alternatively, the selecting mean 46 may be a window in the outer circumference of the third disc 16.

- 20 According to an embodiment of the invention, the second field 24, 12 and the indication means 26, 28, 30, 32, 34, 36, 38 of the second disc 14 are arranged so that the ratio between the value of the output data represented in the second field 24 of the first disc 12 corresponding to
25 a first type of ophthalmic lenses and the value of the output data represented in the second field 24 of the first disc 12 corresponding to a second type of ophthalmic lenses is constant independently of the value

of the input data selected by the selection means 40 and 46.

According to an embodiment of the invention not represented, the indicating device may comprise only the
5 first 14 and second 16 discs.

According to an embodiment of the invention represented on figure 6, the indicating device may have a rectangular shape.

The indicating device 100 represented on figure 6 is for
10 the purpose of indicating the ametropia of wearer at the age of eighteen according to the value of the ametropia at a selected age.

The indicating device 100 includes a first member 120, a second member 140, a third member 160 connected together
15 in translation along the longitudinal axis 200 of the indicating device 100.

Figure 7 represents an arrangement of the upper face of the first member 120 of an indicating device 100 as represented on figure 6. The upper face of the first
20 member 120 comprises a first field 220 comprising a plurality of values of an input data.

The input data may be any type of data that has an impact on the ametropia progression. The input data represented
25 in the first field 220 may be selected among the following list consisting of:

- the age of the first optical correction,
- the ethnic group of the wearer,

- the medical treatment the wearer may use,
- the number of reading hours per day,
- the reading distance of the wearer,
- the type of lighting the wearer may use,
- 5 - the actual age of the wearer, and
- the actual refraction value of the wearer.

According to the embodiment of the invention represented on figure 7, the input data represented in the first
10 field 220 represent the age of the wearer.

The upper face of the first member 120 also comprises a second field 240 comprising a plurality of values of output data.

The output data may be any type of data that may be
15 related to the ametropia of a wearer. The output data represented in the second field 240 may be selected among the following list consisting of:

- the ametropia value after a given period of time, for example the ametropia at the age of eighteen,
- 20 - the risk of eye pathology,
- the risk of car accident, and
- the risk of falling.

According to the embodiment of the invention represented on figure 7, the output data represented in the second
25 field 240 represent the ametropia value and the risk of eye pathology of the wearer at the age of eighteen.

The first 220 and second 240 fields are placed on either part of the longitudinal axis 200 of the indicating device 100.

Figures 8a and 8b represent two arrangements of the upper
5 face of the second member 140 of an indicating device 100 as represented on figure 6.

The upper face of the second member 140 represented on figure 8a comprises a first 260, second 280 and third 300 windows. The windows 260, 280, 300 are spaced from the
10 longitudinal axis 200 of the indicating device 100 by a transversal distance which is substantially the same as the transversal distance of the second field 240 of the first member 120. The first 260, second 280 and third 300 windows correspond to different type of ophthalmic lenses
15 the wearer may use.

Alternatively as represented on figure 8b, the upper face of the second member 140 may comprise a large window 320.

The large window 320 is spaced from the longitudinal axis 200 of the indicating device 100 by a transversal
20 distance which is substantially the same as the transversal distance of the second field 240 of the first member 120. The upper face of the second member may also comprise first, second and third arrows pointing a specific part of the large window 320 in transversal
25 directions. The first, second and third arrows correspond to different type of ophthalmic lenses the wearer may use.

The upper face of the second member 140 also comprises a fourth arrow 400 pointing to the outer part of the second member 140.

The windows 260, 280, 300 and 320 and the arrows 340, 360, 380 correspond to indication means associated with a type of ophthalmic lens and are arranged so that when the fourth arrow 460 indicates an input value, the output values corresponding to the different ophthalmic lenses are displayed in the windows and/or pointed by the first, second and third arrows.

As represented on figure 9, the third member 160, comprises a single composite window 420, a field 440 and a selecting mean 460.

The single composite window 420 is spaced from the longitudinal axis 200 of the indicating device 100 by a transversal distance which is substantially the same as the transversal distance of the second field 240 of the first member 120.

The field 440 is part of a longitudinal region of the upper face of the third member 160. The second field 240 is closer to the longitudinal axis 200 than the first field 220. The field 440 comprises a plurality of values of an input data selected among the same list as the input data of the first field 220 of the first member 120.

As represented on figure 9, the selecting mean 460 may be an arrow pointing in the outer direction of the third member 160.

According to an embodiment of the invention, the second field 240 and the indication means 260, 280, 300, 320, 340, 360, 380 of the second member 140 are arranged so that the ratio between the value of the output data represented in the second field 240 of the first member 120 corresponding to a first type of ophthalmic lenses and the value of the output data represented in the second field 240 of the first member 120 corresponding to a second type of ophthalmic lenses is constant independently of the value of the input data selected by the selection means 400 and 460.

According to an embodiment of the invention not represented, the indicating device may comprise only the first and second members.

15 The outer face of the different members or discs may be printed with additional explanatory material and/or promotional material.

The invention has been described above with different embodiments without limitation of the general inventive concept.

CLAIMS

1. An indicating device (10, 100) for indicating the ametropia progression of a wearer over a predetermined period of time according to at least the type of ophthalmic lens the wearer may use, wherein
- the device comprises first (12, 120) and second (14, 140) members connected together in a moveable manner,
 - the first member (12, 120) having a first field (22, 220) including a plurality of values of input data and a second field (24, 240) including a plurality of values of output data representative of the ametropia of a wearer,
 - the second member (14, 140) having at least a selection mean (40, 400) and an indication mean,
 - the selection mean (40, 400) being arranged to select among movement of the second member (14, 140) a value of the input data corresponding to a wearer and
 - the indication mean (28, 26, 30, 32, 36, 38, 280, 260, 300, 320, 360, 380) being associated with a type of ophthalmic lens and arranged to indicate among movement of the second member (14, 140) the value of the output data on the first member (12, 120) corresponding to the ametropia of the wearer after the predetermined period of time.
2. The indicating device (10, 100) according to claim 1, wherein the indicating device (10, 100) further comprises a third member (16, 160) connected to the first (12, 120) and second (14, 140) members in a moveable manner, the third member (16, 160) comprises:

a field (44, 440) including a plurality of values of second input data,

a selecting mean (46, 460) arranged to select among movement of the third member (16, 160) a value of the input data from the first member (12, 120), and
an opening (42, 420) arranged to display at least a part of the second field (24, 240) of the first member (12, 120) among movement of the third member (16, 160).

3. The indicating device (10, 100) according to any of the preceding claims wherein the input data are selected among one or a combination of the following data consisting of:

- the age of the first optical correction,
- the ethnic group of the wearer,
- the medical treatment the wearer may use,
- the number of reading hours per day,
- the reading distance of the wearer,
- the type of lighting the wearer may use,
- the actual age of the wearer, and
- the actual refraction value of the wearer.

4. The indicating device (10, 100) according to any of the preceding claims, wherein the output data are selected among one or a combination of the following data consisting of:

- the ametropia value after a given period of time,
- the risk of eye pathology,
- the risk of car accident, and
- the risk of falling.

5. The indicating device (10, 100) according to any of the preceding claims, wherein the selection mean and/or indication mean (28, 26, 30, 280, 260, 300) comprise a window dimensioned for displaying a single value of the input data and/or output data.

6. The indicating device according to any of claims 1 to 4, wherein the selection mean (40, 46, 400, 460) and/or indication mean (32, 36, 38, 320, 360, 380) comprise an arrow arranged to displaying a single value of the input data and/or output data.

7. The indicating device according to any of the preceding claims, wherein the first, second and third members are connected together for rotating about an axis (20).

8. The indicating device according to any of claims 1 to 6, wherein the first, second and third members are connected together for translation about a longitudinal axis (200) of the indicating device (100).

AMENDED CLAIMS

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1. An indicating device (10, 100) for indicating the ametropia progression of a wearer over a predetermined period of time according to at least the type of ophthalmic lens the wearer may use, wherein
- the device comprises first (12, 120) and second (14, 140) members connected together in a moveable manner,
 - the first member (12, 120) having a first field (22, 220) including a plurality of values of input data and a second field (24, 240) including a plurality of values of output data representative of the ametropia of a wearer,
 - the second member (14, 140) having at least a selection mean (40, 400) and an indication mean,
 - the selection mean (40, 400) being arranged to select among movement of the second member (14, 140) a value of the input data corresponding to a wearer and
 - the indication mean (28, 26, 30, 32, 36, 38, 280, 260, 300, 320, 360, 380) being associated with a type of ophthalmic lens and arranged to indicate among movement of the second member (14, 140) the value of the output data on the first member (12, 120) corresponding to the ametropia of the wearer after the predetermined period of time,
- wherein the indicating device (10, 100) further comprises a third member (16, 160) connected to the first (12, 120) and second (14, 140) members in a moveable manner, the third member (16, 160) comprises:
- a field (44, 440) including a plurality of values of second input data,

a selecting mean (46, 460) arranged to select among movement of the third member (16, 160) a value of the input data from the first member (12, 120), and an opening (42, 420) arranged to display at least a part
5 of the second field (24, 240) of the first member (12, 120) among movement of the third member (16, 160).

2. The indicating device (10, 100) according to the preceding claim wherein the input data are selected among
10 one or a combination of the following data consisting of:

- the age of the first optical correction,
- the ethnic group of the wearer,
- the medical treatment the wearer may use,
- the number of reading hours per day,
- 15 - the reading distance of the wearer,
- the type of lighting the wearer may use,
- the actual age of the wearer, and
- the actual refraction value of the wearer.

3. The indicating device (10, 100) according to any of
20 the preceding claims, wherein the output data are selected among one or a combination of the following data consisting of:

- the ametropia value after a given period of time,
- 25 - the risk of eye pathology,
- the risk of car accident, and
- the risk of falling.

4. The indicating device (10, 100) according to any of the preceding claims, wherein the selection mean and/or

indication mean (28, 26, 30, 280, 260, 300) comprise a window dimensioned for displaying a single value of the input data and/or output data.

- 5 5. The indicating device according to any of claims 1 to 3, wherein the selection mean (40, 46, 400, 460) and/or indication mean (32, 36, 38, 320, 360, 380) comprise an arrow arranged to displaying a single value of the input data and/or output data.

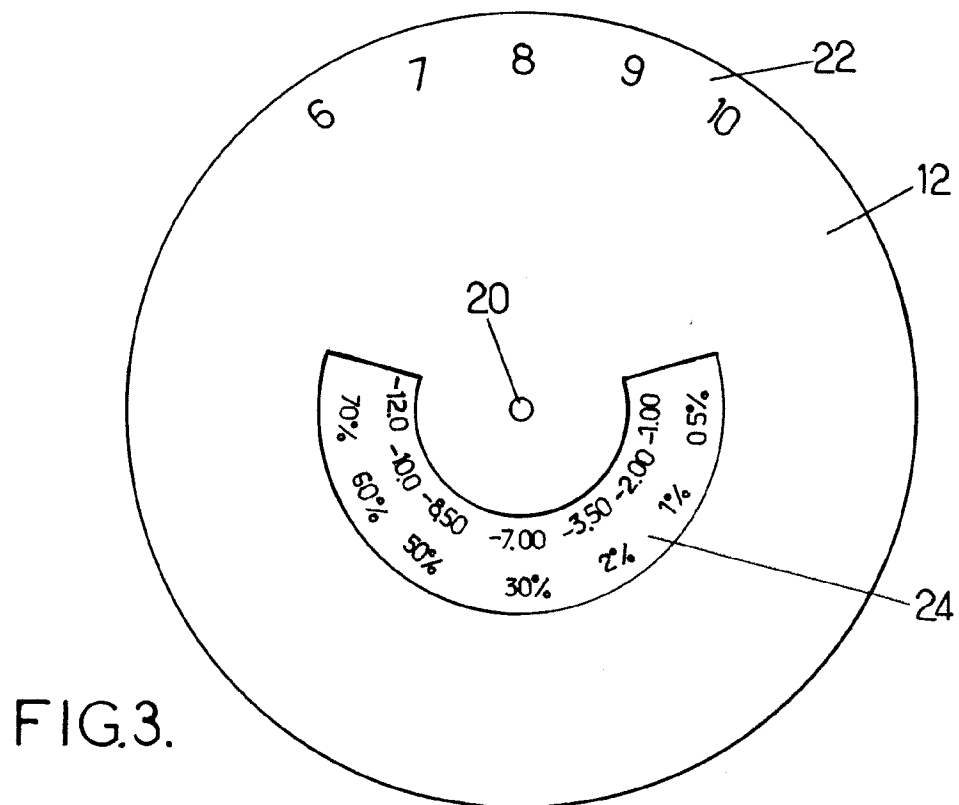
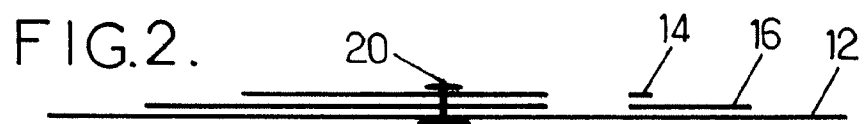
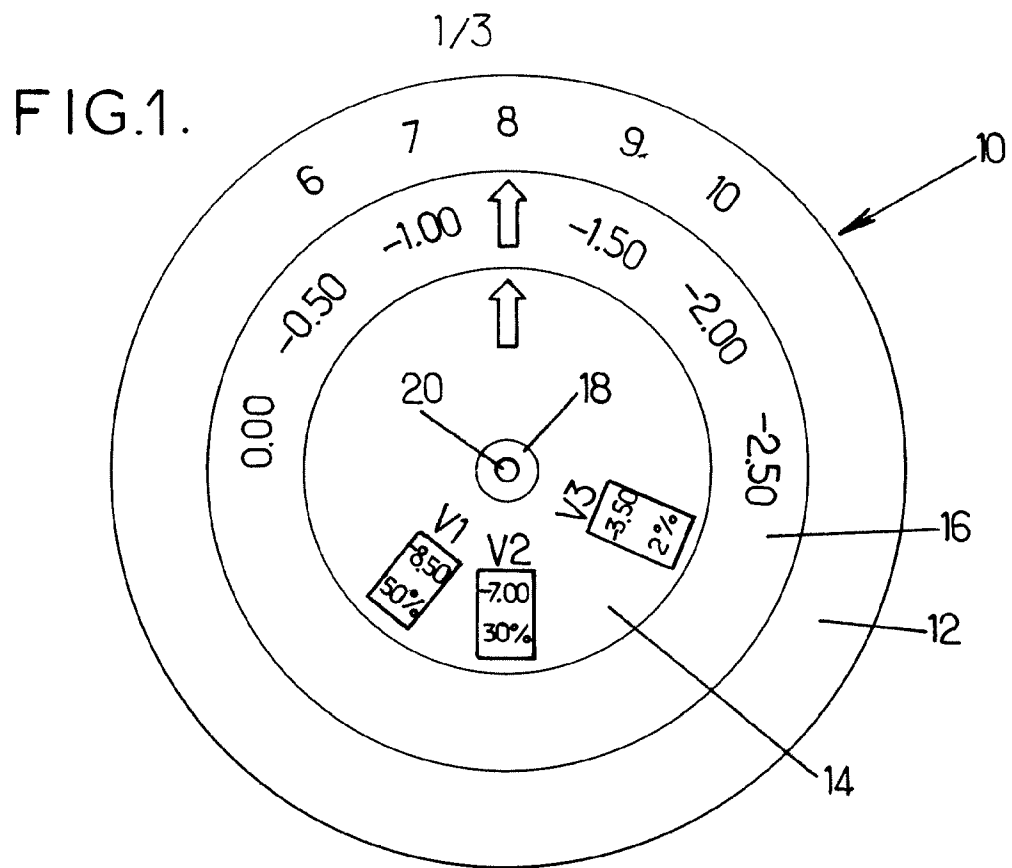
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6. The indicating device according to any of the preceding claims, wherein the first, second and third members are connected together for rotating about an axis (20).

15

7. The indicating device according to any of claims 1 to 5, wherein the first, second and third members are connected together for translation about a longitudinal axis (200) of the indicating device (100).

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FIG.5.

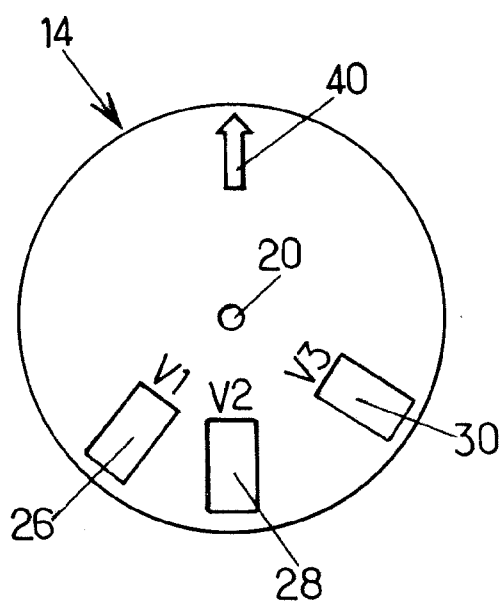
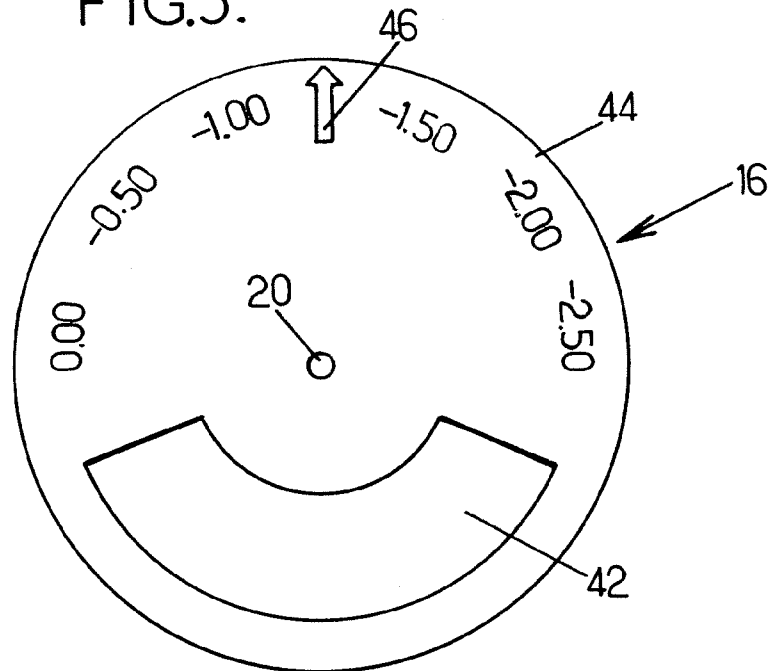


FIG.4a.

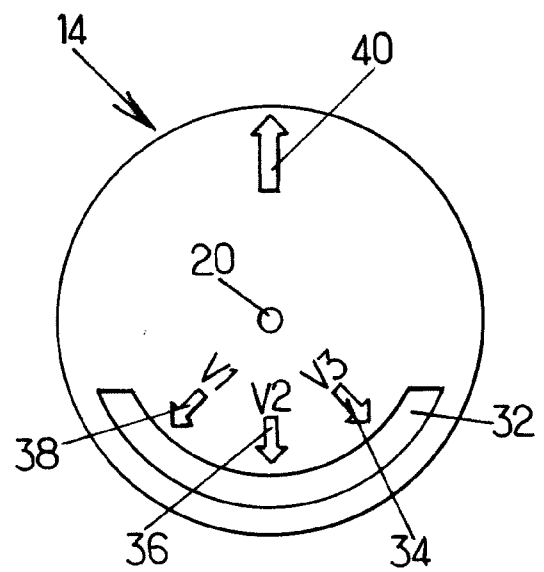
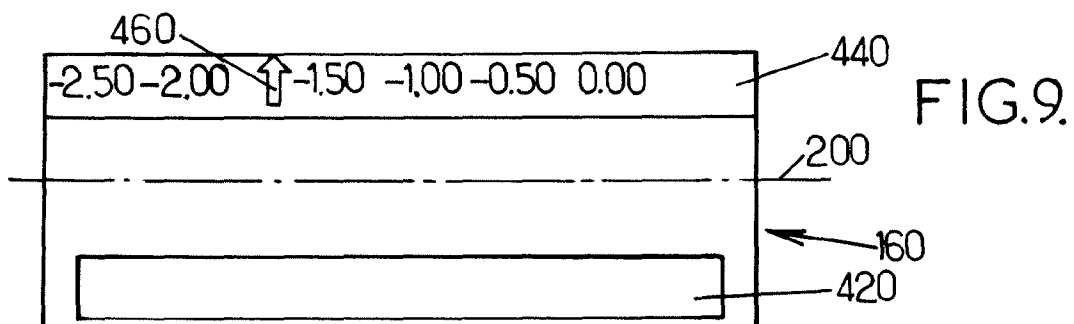
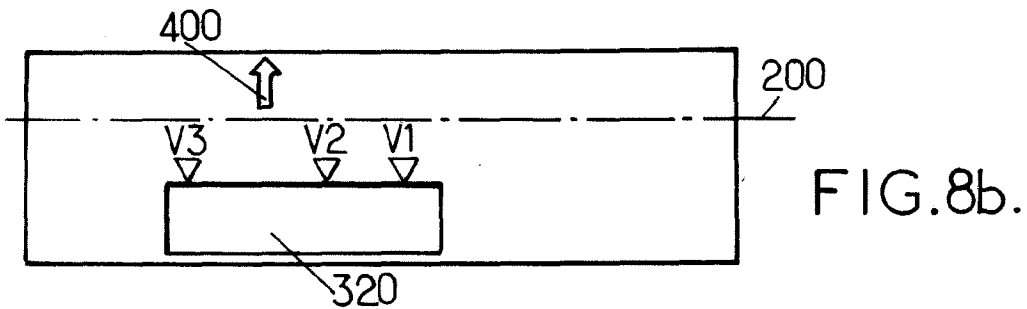
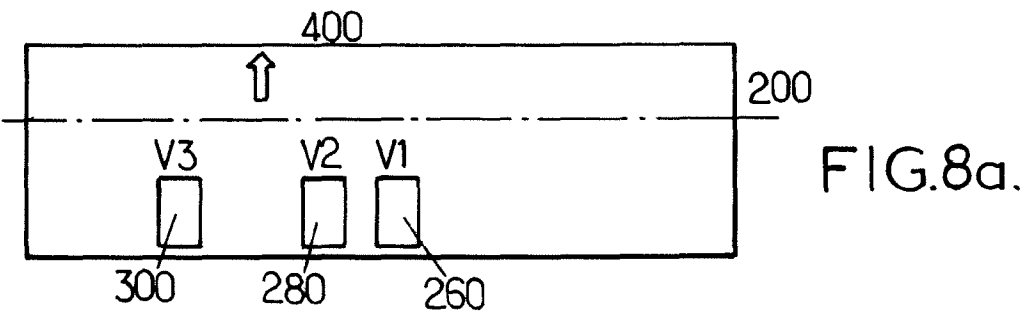
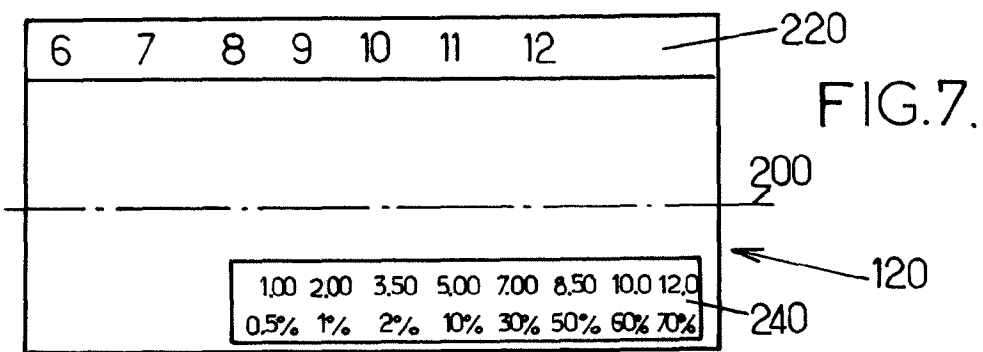
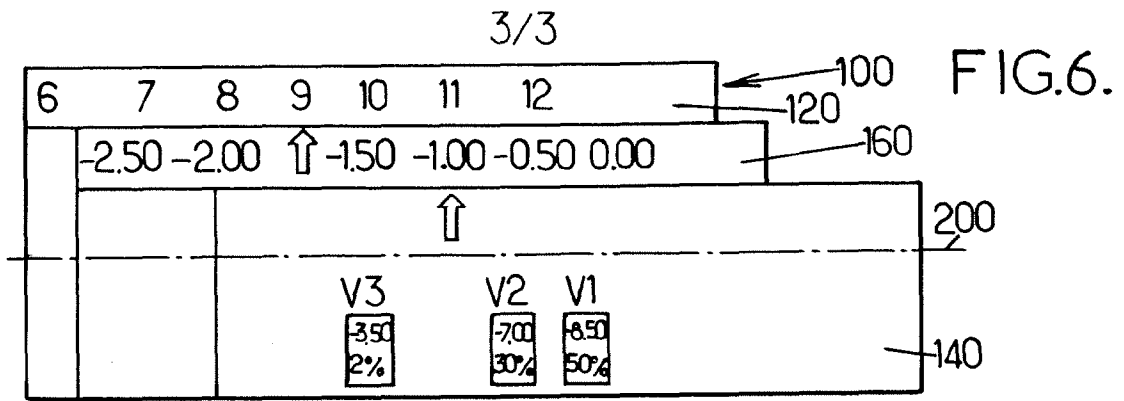


FIG.4b.



INTERNATIONAL SEARCH REPORT

International application No
PCT/EP2010/059018

A. CLASSIFICATION OF SUBJECT MATTER
INV. A61B3/00 G06G1/00
ADD.

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

A61B G06G

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 882 472 A (SIGMAN SUSAN J [US] ET AL) 21 November 1989 (1989-11-21)	1,3-7
Y	column 3, line 65 - column 5, line 18; figures 1-3	8
X	US 4 329 570 A (KOLL LAUREL A) 11 May 1982 (1982-05-11)	1,3-8
Y	column 3, line 41 - column 5, line 58; figures 1-7	
Y	US 5 717 193 A (MARCELO RUBEN V [US]) 10 February 1998 (1998-02-10)	8
A	column 3, lines 37-50; figures 3-5,11-14	1,3-7
A	WO 2005/081172 A1 (MATHEWS EDWARD HENRY [ZA]) 1 September 2005 (2005-09-01) figures 1-7	1,2
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☒ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents:

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INTERNATIONAL SEARCH REPORT

International application No
PCT/EP2010/059018

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Information on patent family members

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