



(12) **EUROPEAN PATENT APPLICATION**

(43) Date of publication:
28.02.2018 Bulletin 2018/09

(51) Int Cl.:
G09F 5/04 (2006.01) G09F 9/30 (2006.01)

(21) Application number: **17185708.9**

(22) Date of filing: **10.08.2017**

(84) Designated Contracting States:
**AL AT BE BG CH CY CZ DE DK EE ES FI FR GB
GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO
PL PT RO RS SE SI SK SM TR**
Designated Extension States:
BA ME
Designated Validation States:
MA MD

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(30) Priority: **11.08.2016 IT 201600084727**

(54) **MULTIMEDIA METABOOK**

(57) Multimedia metabook adapted for containing a support for representations of creative and/or artistic works in paper form and a support for representations of digital creative works in electronic form, comprising:

- a cover (3) at the front, a bottom (4) at the back, and in the central part which joins the cover and the bottom, a spine (5), said spine (5) and cover (3) forming part of the support of creative representations in paper form, said bottom (4) forming part of the support of creative digital representations in electronic form;

- removable binding means (6) applied to said spine (5), adapted for binding edges of sheets of representations of creative works in paper form, in a removable and re-assemblable manner;

- a panel (7), part of and removably or fixedly connected to, said support for digital representations of creative works in electronic form, said panel comprising electronic components of said support for representations of digital creative works in electronic form, said electronic components comprising an electronic display device and computer applications;

said multimedia metabook being adapted to take a closed position between said cover and bottom, comprising inside said panel and said sheets, and an open position adapted to expose said panel.

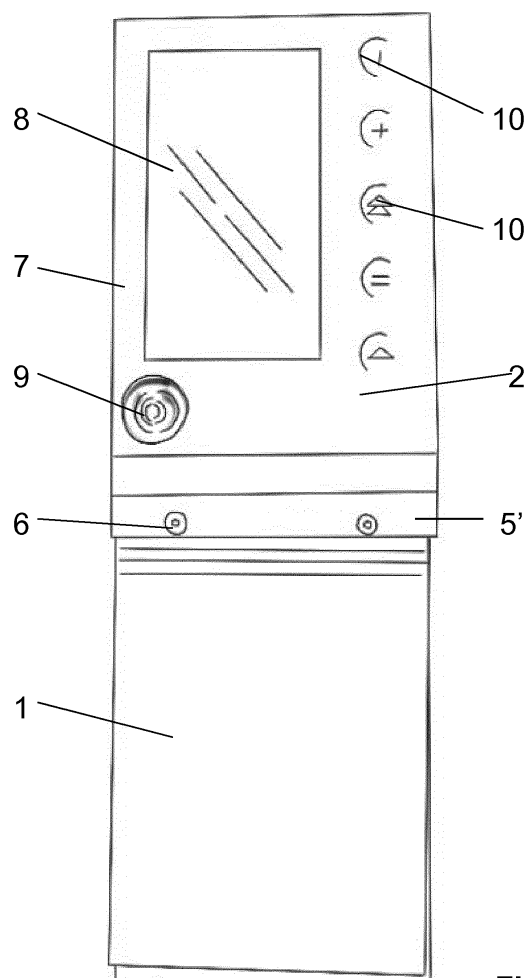


FIG. 1

Description

Field of application of the invention

[0001] The present invention relates to a multimedia metabook, or a book which may be composed by combining different languages and forms of expression on paper and electronic/digital support, adapted for containing a support for representations of creative and/or artistic works in paper form and a support for representations of digital creative works in electronic form.

Background art

[0002] It is known that today, images have acquired an increasingly important role in the lives of all of us. The habit to represent and tell about oneself that in the past was mainly entrusted to the hands of professionals has developed through technology. With phones and tablets we are learning that the power of telling lies in our hands, increasing the desire to tell, celebrate, remember becoming authors and/or co-authors of stories.

[0003] Internet and the Social Media require immediacy, instantaneousness, sharing, participation, game, multi-channel from the inventions that are proposed in this area.

[0004] All this leads to making what is proposed not permanent, ephemeral, which is the exact opposite of the value of a tale, a story, an artistic artifact.

[0005] This aspect of non-durability of products made with digital technology is accentuated by the fact that in order to be enjoyed, they need a support able to interpret the format, an aspect in contrast with the policies of technology producers aimed at continually improving the performance of their products.

[0006] It is known that the need to express oneself passes through the use of multiple languages simultaneously, analog, digital, trying to recover traditions and to stimulate our feelings by using all the senses.

[0007] It is known that the images represent the author's look, not reality.

[0008] The use of a creative work is affected by the way in which it is made available. Compared to a printed representation, the electronic, digital, approach allows one to amplify and enrich the way one interacts with the work, providing additional content, making it unique.

[0009] An artwork in electronic digital format, be it pictorial, photographic or made with a clip, can be made available through moving or static images, always requiring a support for viewing.

[0010] For the use of these works, prints on canvas, prints on different cards that can be collected in paper photo albums, or viewers of digital movies, photos and small videos, brochure or the same PCs, tablets and smartphones, TVs are known in the art. The quality of "pictures" is quite different depending on the selected end support, the physical principle whereby we see them is absolutely different.

[0011] Said use is therefore limited for the user, and the situation of having to use different support types, disconnected from each other, is uncomfortable.

[0012] Moreover, a creative user may need to use multiple languages, static, dynamic, sound in one room. Therefore, there is the need to integrate different modes of expression.

Summary of the invention

[0013] Therefore, the object of the present invention is to provide a multimedia metabook for containing supports for representations of creative and/or artistic works in paper and electronic form, which aims to overcome the above drawbacks.

[0014] The object of the present invention is a multimedia metabook adapted for containing a support for representations of creative and/or artistic works in paper form and a support for representations of digital creative works in electronic form, comprising:

- a cover at the front, a bottom at the back, and in the central part which joins the cover and the bottom, a spine, said spine and cover forming part of the support of creative representations in paper form, said bottom forming part of the support of creative digital representations in electronic form;
- removable binding means applied to said spine, adapted for binding edges of sheets of representations of creative works in paper form, in a removable and reassemblable manner;
- a panel, part of and removably or fixedly connected to, said support for digital representations of creative works in electronic form, said panel comprising electronic components of said support for representations of digital creative works in electronic form, said electronic components comprising an electronic display device and informatics applications; said multimedia metabook being adapted to take a closed position between said cover and bottom, comprising inside said panel and said sheets, and an open position adapted to expose said panel.

[0015] In particular, the present invention relates to a multimedia metabook for containing supports for representations of creative and/or artistic works in paper and electronic form, as better described in the claims, which are an integral part of the present description.

Brief description of the figures

[0016] Further objects and advantages of the present invention will appear from the following detailed description of non-limiting embodiment examples thereof, with reference to the accompanying drawings, in which:

- figure 1 shows a first example of binder object of the present invention when open;

- figures 2, 3.1, 3.2 show said first example of binder when closed, in a top view and two side top and bottom views, respectively;
- figures 4 and 5 show a second embodiment example of the binder object of the present invention when open, comprising tabs or bands folding on the sides towards the interior of the binder, with the tabs or bands open;
- figures 6 and 7 show said second embodiment example of the binder when open, with the tabs or bands closed or partially open;
- figure 8 shows said second embodiment example of the binder when open, wherein the support of the electronic representation of the artistic works is resting on the cover of the binder, with the cover stopped in an inclined position, by resting on one of the tabs or bands;
- figure 9 shows an embodiment example of the inner interconnections between the various component parts of the electronic representation support.

[0017] The same reference numerals and letters in the figures identify the same elements or components.

Detailed description of exemplary embodiments

[0018] The multimedia metabook object of the invention essentially comprises three main elements:

- the book that may be of various sizes, such as A5, A4, A3
- electronic components
- informatics application.

[0019] The book element comprises:

- a cover at the front, a bottom at the back, and a spine joining cover and bottom in the central part,
- removable binding means applied to the spine, adapted for binding edges of sheets,
- the sheets may have different characteristics by appearance, thus glossy, matte, rough, smooth, and by use, thus photographic prints, "fine art" prints, drawing, watercolor, made with different raw materials, cotton, rice, ... as a function of the selected expressive modes and renditions required for the browsable paper form.
- such sheets are removable and can be reassembled to facilitate their compilation.

[0020] In addition:

- a panel is connected in fixed or removable manner to the bottom and comprises electronic and computer components adapted to the composition and representation of the digital creative components.
- The multimedia metabook is adapted to take a closed position between the cover and bottom, com-

prising inside the panel and the sheets, and an open position adapted to expose the panel.

[0021] The electronic components comprise:

- a screen that can vary depending on the technology available on the market to have:
- hd or full hd resolution obtained for example with LCD, OLED or AMOLED technology, tendentially technology with back lighting and organic displays
- the screen may be either touch screen or with external controls;
- the screen size should be compatible with consumption and with the batteries available on the market.
- a 7 to 14 inch display is preferable, a dimension also compatible with the features of the book, with a yield of more or less vivid colors and possibly with the possibility of having functions for color calibration;
- lithium batteries for the characteristics of rechargeability, yield and for the possibility of being sufficiently thin to be inserted close to the screen in the panel;
- the batteries for safety reasons are integrated in the panel and non-replaceable, however upon the variation of technology, in compliance with the regulations, it will be possible to use replaceable batteries.
- a processor for screen and application feature management, an expandable memory and systems for interfacing with other external components will be placed and properly connected into the panel.
- A sound management system is also provided which can be listened to with speaker and earphones also in stereo mode.

[0022] As for the computer application, it allows the management of images/videos and sound.

[0023] An application is provided to support the configuration/upload of images/videos that allows the direct connection with tablets and smartphones when the multimedia metabook is being created, allowing for example a color and sound calibration. At the end of the creation, it is possible to activate a content protection function excluding the option to edit and copy them, keeping the opportunity to share on the major social media the works created by professionals and non-professionals, with precise indications of the authors and compliance with copyright rules. A reset function of the multimedia metabook is available with the loss of contents and the ability to reuse the metabook in its digital part.

[0024] More in detail, with reference to the accompanying figures, the multimedia metabook of the present invention appears like a book, which combines a paper part 1 as support of creative representations and comprises one or more physical pages made of different materials. The choice of the material for making said pages is a function of the language used to make the analog creative elements.

[0025] A part 2 as a support of creative representations in digital form is made with a fixed or removable panel 7

which contains the electronic and computer components for the use of the digital creative components.

[0026] The multimedia metabook comprises a cover 3 at the front, a bottom 4 at the back, and a spine 5 joining the cover to the bottom in the central part.

[0027] The spine comprises a central part 5, between two flaps 5', 5"; the latter are applied to removable binding means, preferably removable screws 6, for binding the edges of the sheets in a removable and reassemblable manner.

[0028] The two flaps project cantilevering into the multimedia metabook, also allowing a complete and free opening of the cover with respect to the bottom.

[0029] An optimal binding of the sheets that are part of the support of artistic representations in paper form is thus possible. The sheets may be of various materials and size, made with papers differing by material (linen, cotton, synthetic), by appearance (glossy/matt rough/smooth), by technical characteristics due to the type of application (photographic print, design, writing...). Sheets of various protective materials, including plastic, may be interposed.

[0030] Moreover, the sheets may be provided with creasing to make it easier to browse through them.

[0031] The support of creative representations in digital form is applied on bottom 4 in a fixed or removable manner, and comprises a panel 7 with the various electronic components integrated and the software applications installed.

[0032] The panel is visible when the book is open and one can see:

- a screen 8, preferably of the touch-screen type, which is part of an electronic display such as a tablet or viewer;
- a loudspeaker 9, with possible solution with stereo output;
- control buttons 10 for scrolling images, such as forward, backward, stop, increase or decrease audio volume, search functions etc. (for example in the non-touch-screen version).
- on one side of the panel there is an input/output socket 11, such as a USB port for connecting with external electronic devices, such as to upload or download image files, clips and/or music, or a power cord, a battery charger, or a printer, or more.
- a headphone or earphone jack 18 to hear better or not to disturb.

[0033] Integrated within panel 7 are a number of components that enable the electrical and electronic connection between the various parts mentioned above: A processor 19, a connector 12, the memory, also expandable 21, one or more connection interfaces for network 20, battery 13.

[0034] In a variant, especially adapted to the case of removable panel 7 (but also usable in the case of fixed panel), on the sides of bottom 4 of the binder, other than

that covering the spine, folding tabs or bands 15, 16, 17 are applied. Said tabs or bands can be opened separately, and closable into the binder, over the panel, in order to retain it or also to enclose movable sheets, not connected to screws 6. The tabs or bands are preferably rectangular: one of the dimensions of the tabs or bands is for example that it extends along the whole length of the respective sides to which the tabs or bands are applied; the other dimension is equal for example to half the length of the other side of the bottom. That way, when closed they are only partially optimally overlapping.

[0035] In a variant (figure 8), band 16, applied to the side opposite to the spine 5, can serve as a support for supporting cover 3 in an inclined open position with respect to the bottom. In this way, in the case of removable panel 7, the latter can be placed on the cover, in inclined position for optimal use by the user. The upper edge 5' of the spine serves as a retainer for panel 7 so that it does not slip.

[0036] It is preferable that cover 3, bottom 4, the tabs or bands, the spine are made of rigid material such as cardboard or other, possibly coated with an aesthetically pleasing material, such as durable woven fabric. The edges that form the respective bends are instead flexible. Panel 7 is also made of a rigid material, with a process, of a known type per se, such as to allow the integration therein of the various component parts described above. The rigid material may for example be cardboard, plastic, wood, Plexiglass, possibly covered with fabrics, paper, leather or imitation leather.

[0037] Embodiment variants of the non-limiting example described are possible without departing from the scope of protection of the present invention, comprising all the equivalent embodiments for a man skilled in the art.

[0038] The elements and the features shown in the different preferred embodiments may be combined without departing from the scope of protection of the present invention.

[0039] The advantages resulting from the application of the present invention are clear.

[0040] Apart from other advantages is the ability to use different modes of expression in a single container, which is modular in the number of sheets, updatable by changing the contents of the sheets and the contents in the technological display and sound.

[0041] This solution also allows making a digital work "physical" by keeping the use consistent with the digital native environment, allowing author's certifications and further controlled copies defined by decreasing any risks of non-compliance with the copyright rules. It allows integration with the major Social Media in accordance with the copyright rules.

[0042] The multimedia metabook allows telling, recalling, keeping stories, works of different artistic and literal expressions and/or celebrating events or people. It is a means that can be used by creative professionals and amateurs who want to express themselves through different analog and digital languages and set in time and

space video images, sounds, clips, printed texts, signs, drawings, writings, prints on cards with specific characteristics (glossy, matte, rough, smooth ...) that provide the image with a different rendition.

[0043] The invention proposes a solution that allows making a creative product made with digital technology physical, with a dedicated support that integrates analog and digital languages. The multimedia metabook can be used:

- by non-professionals:

- in company during an event to celebrate someone collecting written comments/designs drawn on paper, films, photos made, for example, with tablets and smartphones, and delivered during the event, responding to the characteristics of immediacy, instantaneousness, sharing, participation, game;
- on one's own, to fix moments and sensations that are important and that one wants to be able to relive when desired, without concern about the internet connection, having a book that can be read by browsing real pages, which reproduce images, text, marks, printed or handmade designs, looking at digital pictures, videos, and listening to sounds, music and voices produced with the software available with current technology, mainly smartphones and tablets

- by professionals:

- digital photographers and painters who want to propose their works in print and digital format in a single format offering guarantees of authenticity and established replicability;
- photographers who work on order, for example at weddings, where they currently deliver their work through both a traditional photo album and on USB drives that contain digital images and videos; with this invention, they can pack into a single object their job while keeping the same design features and finishes of a high-quality photo album;
- creative people who work and have different skills in digital and non-digital languages who wants to propose an artwork, a project that collects them.

[0044] From the above description, the man skilled in the art is able to implement the object of the invention without introducing any further construction details.

Claims

1. Multimedia metabook adapted for containing a support for representations of creative and/or artistic

works in paper form and a support for representations of digital creative works in electronic form, **characterized in that** it comprises:

- a cover (3) at the front, a bottom (4) at the back, and in the central part which joins the cover and the bottom, a spine (5), said spine (5) and cover (3) forming part of the support of creative representations in paper form, said bottom (4) forming part of the support of creative digital representations in electronic form;
- removable binding means (6) applied to said spine (5), adapted for binding edges of sheets of representations of creative works in paper form, in a removable and reassemblable manner;
- a panel (7), part of, and removably or fixedly connected to, said support for digital representations of creative works in electronic form, said panel comprising electronic components of said support for representations of digital creative works in electronic form, said electronic components comprising an electronic display device and informatics applications;

said multimedia metabook being adapted to take a closed position between said cover and bottom, comprising inside said panel and said sheets, and an open position adapted to expose said panel.

2. Multimedia metabook according to claim 1, wherein said spine (5) comprises a central part to which two flaps (5', 5'') are foldably connected, projecting cantilevering into the binder; and wherein said removable binders comprise removable screws (6) applied to said flaps.
3. Multimedia metabook according to claim 1, comprising one or more foldable tabs or bands (15, 16, 17) applied to one or more sides of said bottom (4), different from the side comprising said spine, said one or more tabs or bands being adapted to close within the binder above said panel (7), and to enclose movable sheets.
4. Multimedia metabook according to claim 3, wherein one of said tabs or bands (16), applied to the opposite side of the bottom (4) with respect to said spine (5), is adapted to act as a support for supporting said cover (3) in an open inclined position with respect to the bottom, said cover being adapted to support said panel (7) if of the removable type.
5. Multimedia metabook according to any one of the preceding claims, wherein said cover (3), bottom (4), foldable tabs or bands (15, 16, 17), spine (5), are made of rigid material, except for the respective edges that make the respective folds.

6. Multimedia metabook according to any one of the preceding claims, wherein said panel (7) is adapted to contain in a position surfacing from said panel:

- said electronic display device (8); 5
- a loudspeaker (9);
- control buttons (10) for the scrolling of images on the electronic display device;
- sound volume control buttons;
- an input/output socket (11) for connection with external electronic devices; 10
- a headphone and earpiece jack (18);

said panel (7) being also adapted to contain therein a series of components which allow the electrical and electronic connection between said surfacing parts. 15

7. Multimedia metabook according to claim 1, wherein said sheets may be of different material and size, made with different papers, such as flax, cotton, gloss, matte, rough, smooth, adapted to apply images, to draw, to be printed. 20

8. Multimedia metabook according to claim 1, wherein said sheets are interposed to sheets of protective material, and/or said sheets comprise a creasing. 25

9. Multimedia metabook according to claim 1, wherein functions for the configuration of the book are available by means of said informatics applications through: 30

- color calibration functions;
- direct connection functions also between tablets and smartphones; 35
- content protection functions;
- social networks sharing functions.

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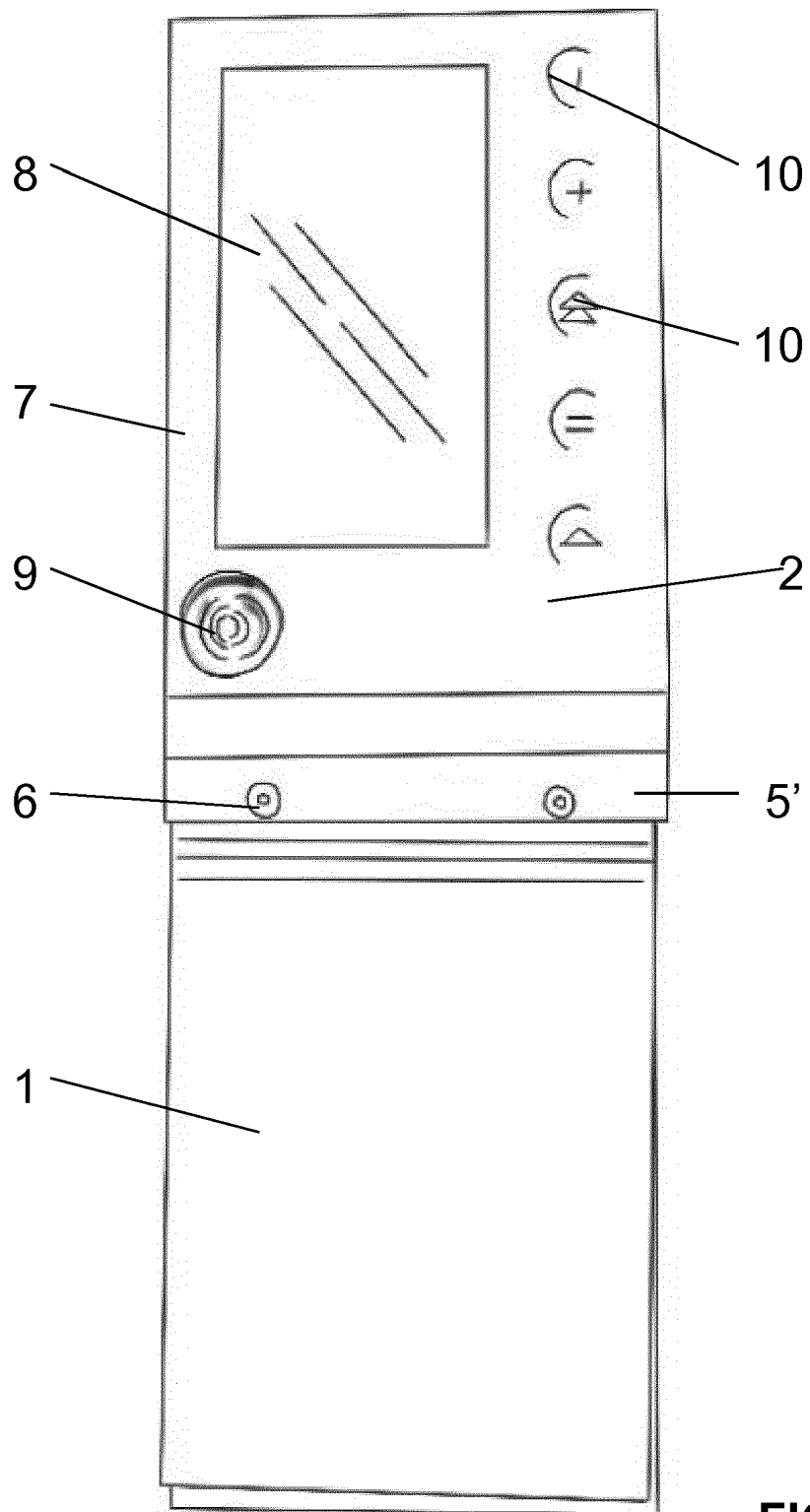


FIG. 1

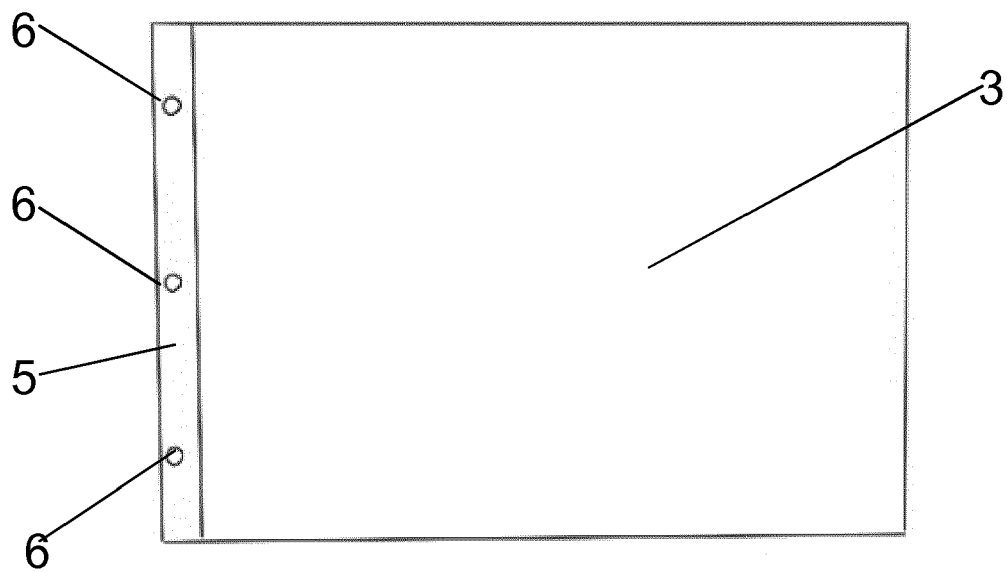


FIG. 2

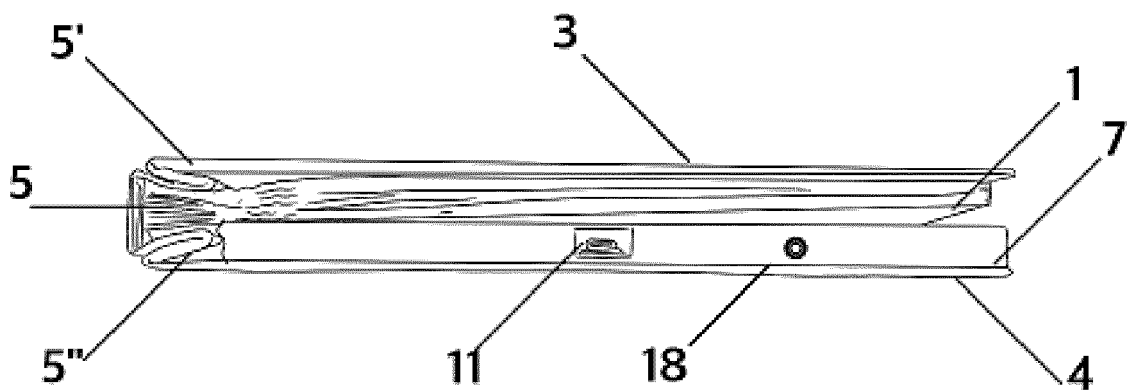


FIG. 3.1

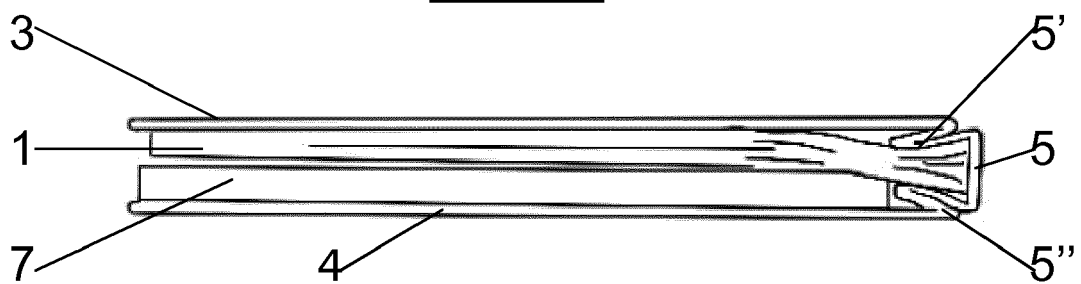


FIG. 3.2

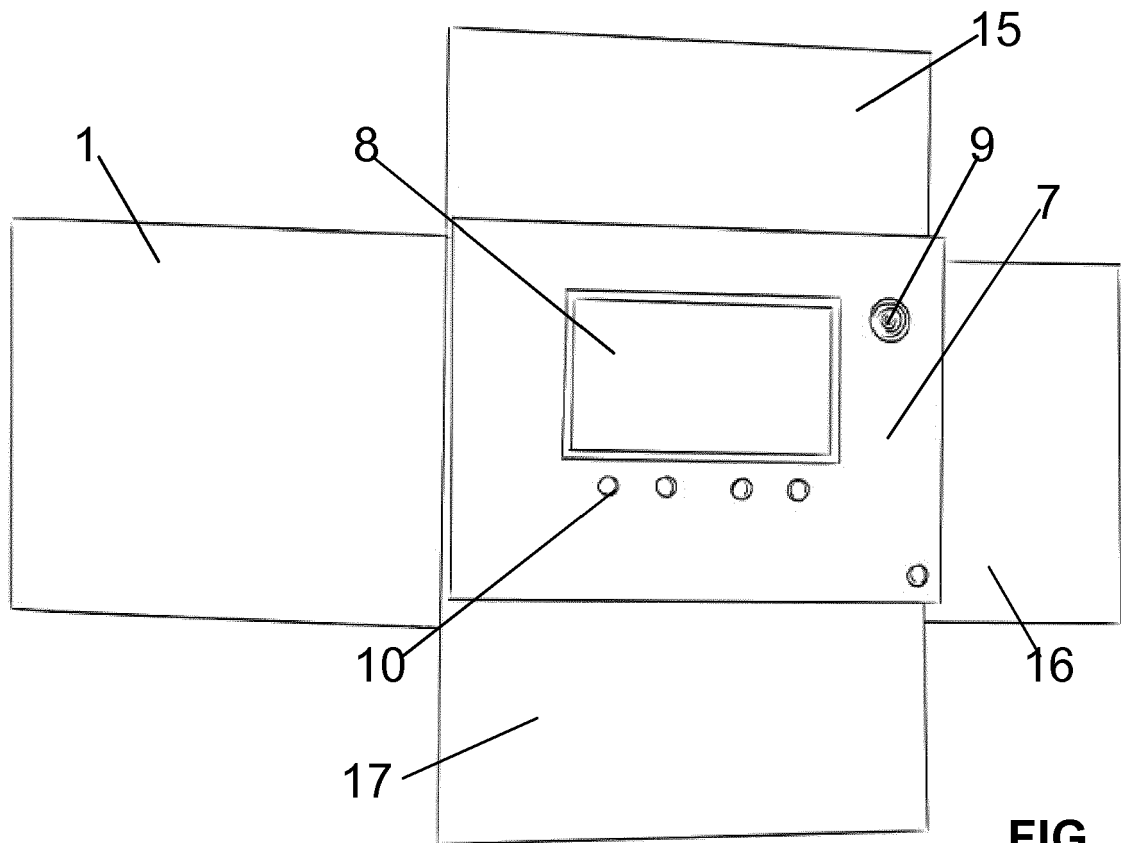


FIG. 4

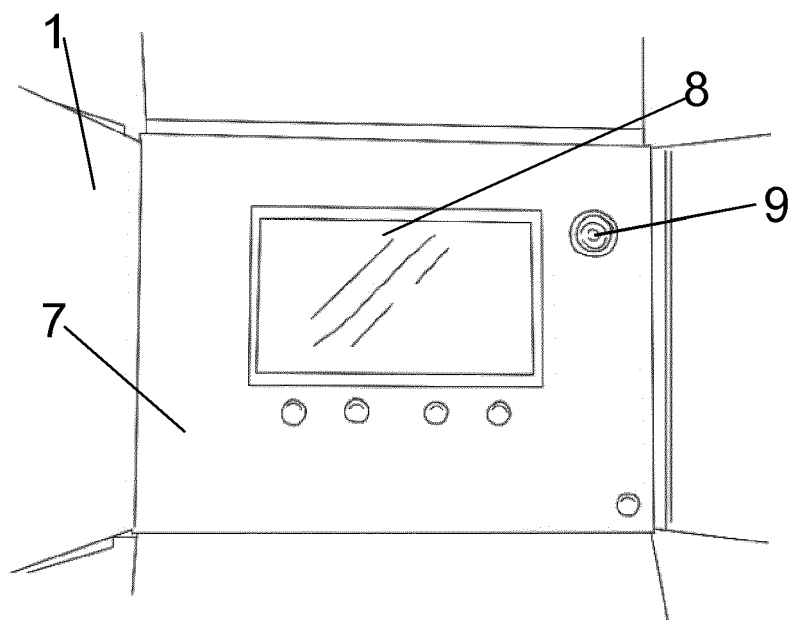


FIG. 5

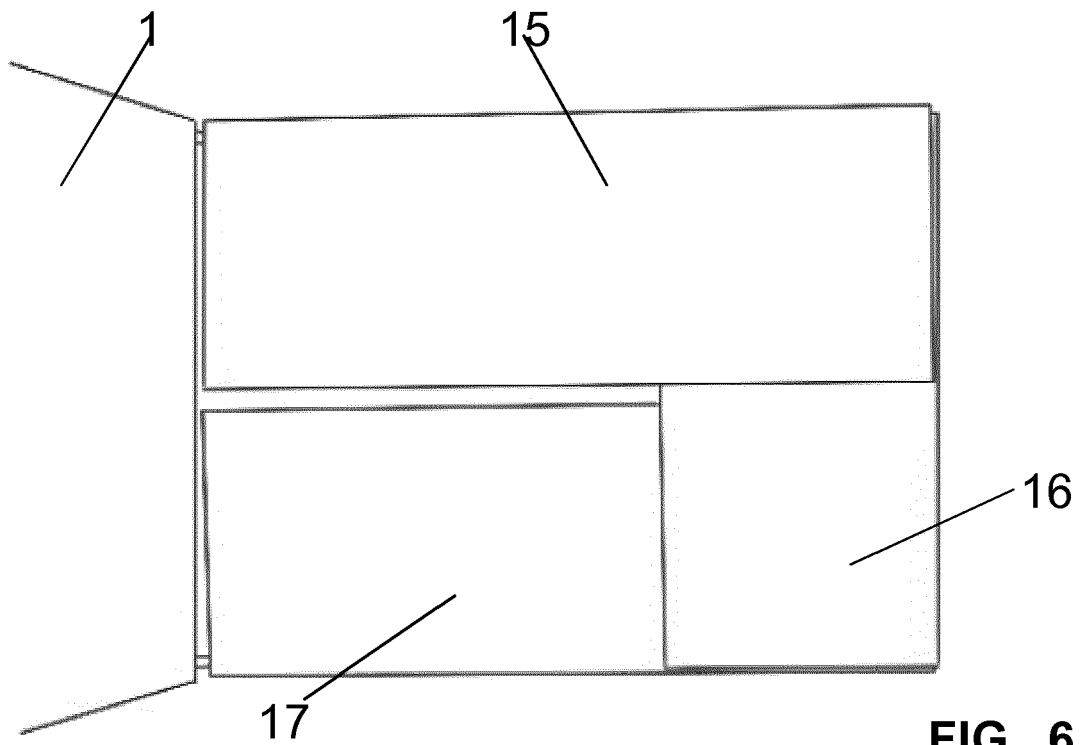


FIG. 6

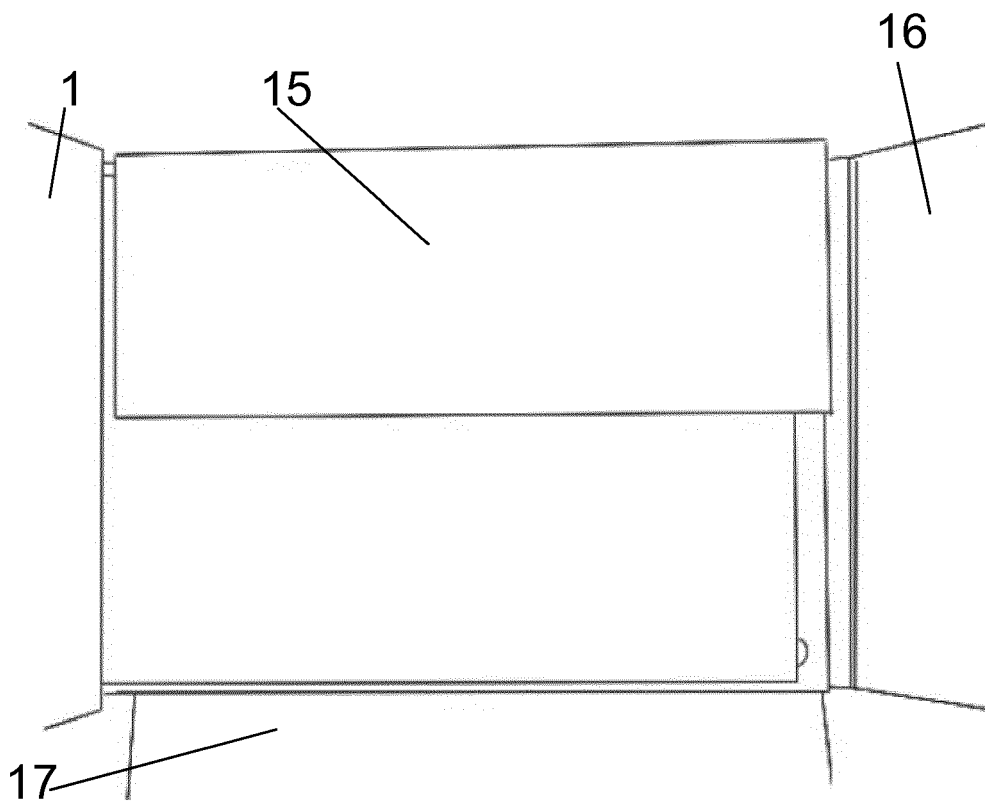


FIG. 7

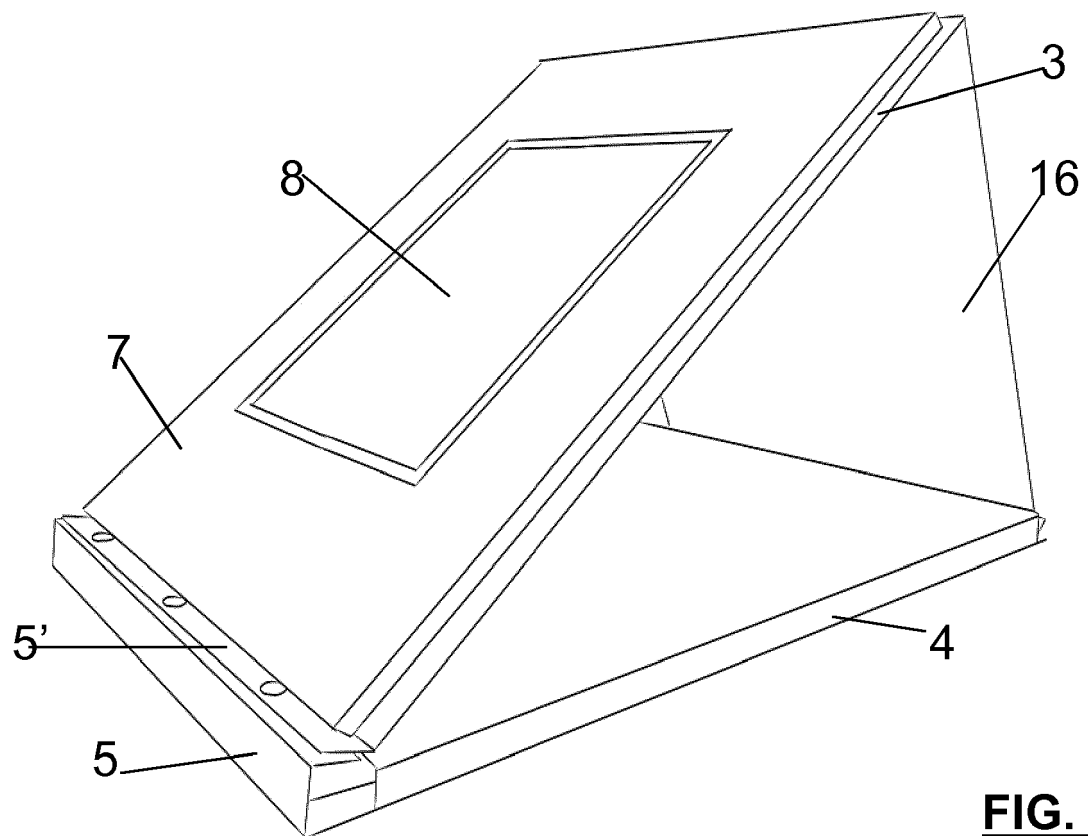


FIG. 8

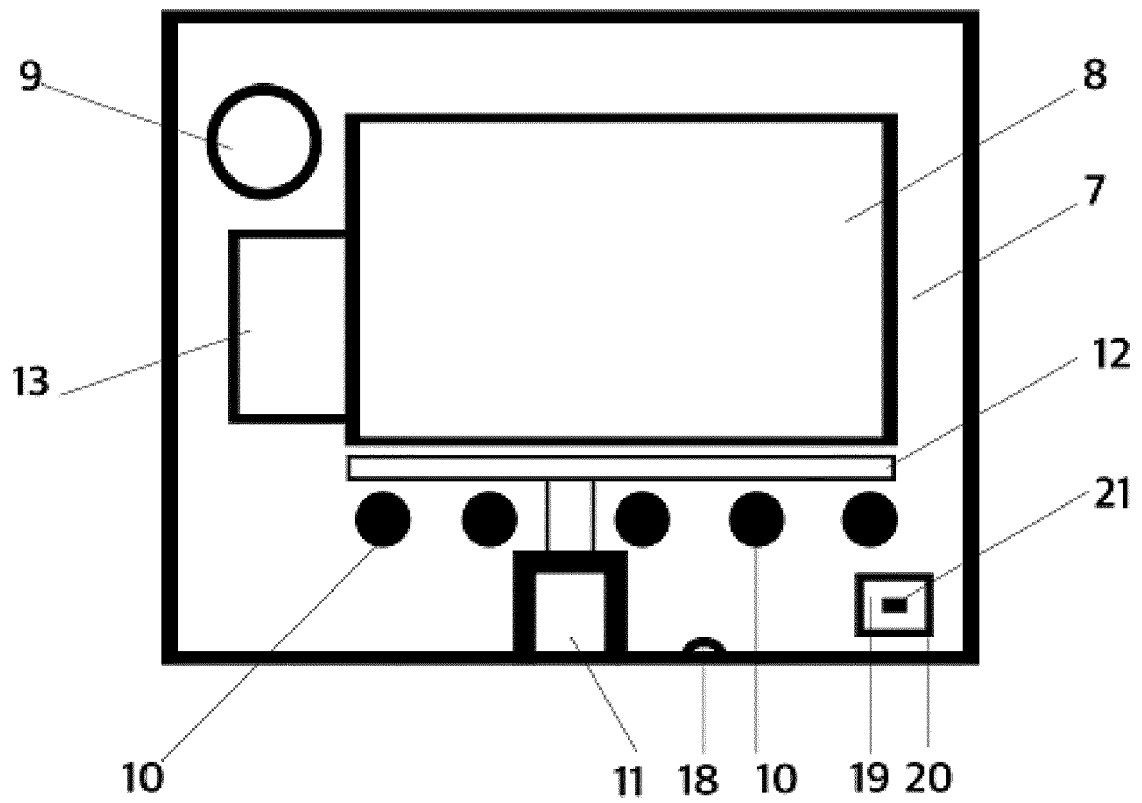


FIG. 9



EUROPEAN SEARCH REPORT

Application Number
EP 17 18 5708

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DOCUMENTS CONSIDERED TO BE RELEVANT			
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The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 19 January 2018	Examiner Pantoja Conde, Ana
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