



(12) **EUROPEAN PATENT APPLICATION**

(43) Date of publication:  
**16.01.2019 Bulletin 2019/03**

(51) Int Cl.:  
**E04B 9/00** (2006.01) **E04B 9/28** (2006.01)  
**F21S 8/02** (2006.01) **F21V 21/04** (2006.01)  
**F21V 21/35** (2006.01) **E04B 9/18** (2006.01)  
**E04C 3/04** (2006.01)

(21) Application number: **18182154.7**

(22) Date of filing: **06.07.2018**

(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:  
**KH MA MD TN**

(71) Applicant: **C&G S.a.s.**  
**36050 Quinto Vicentino (IT)**

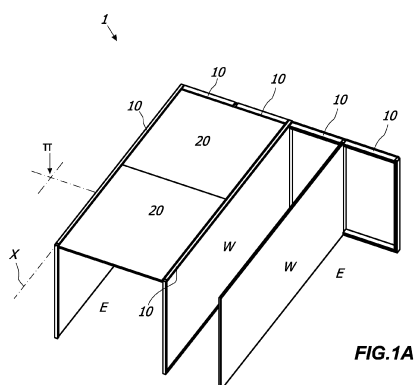
(72) Inventor: **GRANDI, Ruggero**  
**36050 Quinto Vicentino (IT)**

(74) Representative: **Autuori, Angelo**  
**Eureka IP Consulting**  
**Via Monte Cengio, 32**  
**36100 Vicenza (IT)**

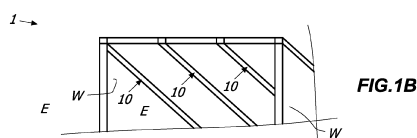
(30) Priority: **11.07.2017 IT 201700078025**  
**11.07.2017 IT 201700078031**

(54) **MULTIFUNCTIONAL, FALSE CEILING SYSTEM FOR THE PARTITIONING AND LIGHTING OF A SPACE**

(57) A multifunctional system installable in a space (E) at a ceiling (C), comprising at least one longitudinal profile (10) couplable with the ceiling (C), at least one first and one second accessory (30, 40) that perform one or more functions in the space (E) alternatively selectively removably coupled with said at least one profile (10). The profile (10) comprises a pair of lateral walls (11, 12) facing each other and an upper wall (13) designated to be faced towards the ceiling (C) cooperating with each other to internally define a compartment (14) open at the bottom for removably receiving the first (30) or second (40) accessory. The latter comprising a longitudinal conductive guide rail (41') that can be power-supplied by means of electric power supply means and at least one light source (40') removably coupled with the longitudinal conductive guide rail (41') so that the latter power-supplies the former. The multifunctional system further comprises at least one low voltage transformer coupled or coupleable with the profile (10) and electrically connected with the longitudinal conductive guide rail (41') and with the electric power supply means so that the light source (40') is power-supplied at low voltage.



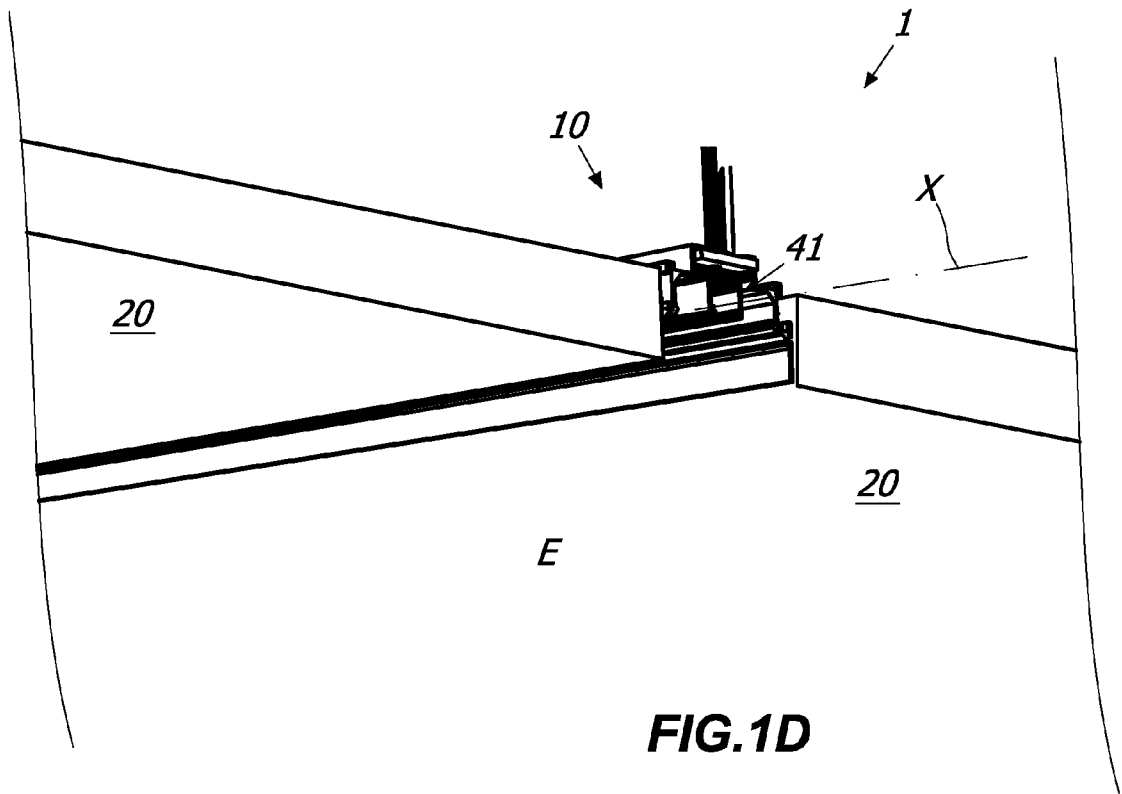
**FIG. 1A**



**FIG. 1B**



**FIG. 1C**



**FIG. 1D**



**FIG. 1E**

## Description

**[0001]** The present invention generally applies to the field of interior furnishing and it regards a multifunctional system installable in a space at a ceiling, in particular for offices, museums, shops and the like.

### State of the Art

**[0002]** Systems for obtaining false ceilings in a space, for example the so-called "open space" office, a shop, a museum or the like, are known. Such systems generally included a plurality of beams or longitudinal profiles connected to a ceiling. In case there is a false ceiling, a plurality of panels are coupled to the beams.

**[0003]** The bearing beams are multifunctional, i.e. suitable to concealingly house a plurality of accessories such as alarms, lighting lights, electric cables, data cables, ducts for air conditioning, partitioning walls or the like.

**[0004]** Such accessories can be removably inserted into the bearing beam so as to enable a user to change the configuration of the environment whenever required.

**[0005]** When the accessory is not inserted, the bearing beam remains exposed or concealed by means of special finishing elements. Such characteristic jeopardises the aesthetic aspect of the system.

**[0006]** Furthermore, the solutions of known multifunctional systems which comprise lighting accessories for spaces can be improved from different points of view.

### Summary of the invention

**[0007]** An object of the present invention is to at least partly overcome the drawbacks illustrated above, by providing a multifunctional system installable in a space at a ceiling, that is highly functional and inexpensive.

**[0008]** An object of the invention is to provide a multifunctional system that enables to change the configuration of the space in which it is mounted in a simple and quick manner.

**[0009]** An object of the invention is to provide a multifunctional system that enables to mount a particularly versatile lighting accessory.

**[0010]** An object of the invention is to provide a multifunctional system that enables to mount partitioning walls in an entirely integrated manner.

**[0011]** An object of the invention is to provide a multifunctional system that enables to mount the panels of the false ceiling in a simple and quick manner.

**[0012]** An object of the invention is to provide a multifunctional system that minimises the installation times.

**[0013]** An object of the invention is to provide a multifunctional system of high aesthetic appeal.

**[0014]** These objects, as well as others that will be clearer hereinafter, are attained by a false ceiling system according to claim 1.

**[0015]** The dependent claims 2 to 15 define advantageous embodiments of such invention.

**[0016]** In a further aspect, irrespective of the above, there may be provided a multifunctional partitioning system installable in a space at a ceiling, comprising:

- 5 - a plurality of longitudinal profiles connectable to the ceiling;
- a plurality of panels couplable with said longitudinal profiles for obtaining a false ceiling;
- 10 - at least one first and one second accessory that perform one or more functions in the space, said at least one first and one second accessory being alternatively selectively removably coupled with said at least one longitudinal profile;

15 wherein each of said longitudinal profiles comprises a pair of first lateral walls facing each other and an upper wall designated to be faced towards the ceiling cooperating with each other to internally define a compartment open at the bottom for removably receiving said at least one first or at least one second accessory,

20 wherein said lateral walls and said upper wall each have an inner surface defining the inner surface of said compartment;

25 wherein when said at least one first and one second accessory are de-coupled from said at least one longitudinal profile, said inner surface of said compartment is designated to remain exposed;

30 wherein said panels are light-coloured, said inner surface of said compartment being configured or treated to be dark-coloured.

**[0017]** Preferably, in such system said panels may be white or grey-coloured, said inner surface of said compartment being suitable to be configured or treated to be black-coloured.

35 **[0018]** Furthermore, advantageously in the aforementioned system when at least one first and one second accessory are de-coupled from said at least one longitudinal profile, said inner surface of said compartment may remain exposed without any covering element of said longitudinal profiles.

40 **[0019]** Suitably, in the aforementioned system said lateral walls may extend in respective planes substantially perpendicular to the false ceiling, said lateral walls possibly having an upper edge facing towards the ceiling and an opposite lower edge facing towards the space, the distance between said upper and lower edges being suitable to define the height of said at least one longitudinal profile, the latter possibly being lesser than 100 mm, and preferably possibly being about 60 mm.

45 **[0020]** Preferably, in the aforementioned system, at least one first and one second accessory may comprise at least one respective first and second portion for the removable coupling with said longitudinal profiles inside said compartment.

55 **[0021]** Furthermore, in the aforementioned system, said lateral walls may advantageously comprise a respective third coupling portion, the latter and said first coupling portion of said at least one first accessory or of

said first and second coupling portions of said at least one first and one second accessory being suitable to be mutually configured for snap-coupling.

[0022] Suitably, in the aforementioned system, said lateral walls may each have an outer surface comprising first elements for coupling with said panels, the latter potentially comprising second elements for coupling with said first coupling elements of said lateral walls.

[0023] Preferably, in the aforementioned system, said first coupling elements of said lateral walls and said second coupling elements of said panels may be mutually couplable in a removable manner.

[0024] Advantageously, in the aforementioned system, said longitudinal profiles and said panels may be mutually configured so that upon mutually coupling said first and second coupling elements, said panels are substantially flushed with said lower edge of said lateral walls of said longitudinal profiles so as to ensure a substantial view continuity for the user.

[0025] Suitably, in the aforementioned system, said at least first one accessory may be a partitioning accessory for one or more partitioning walls, said at least one second accessory potentially being a lighting device as defined in claims 1 to 10.

#### Brief description of the drawings

[0026] Further characteristics and advantages of the invention will be more apparent in light of the detailed description of a preferred but non-exclusive embodiment of a system 1, illustrated by way of non-limiting example with reference to the attached drawings, wherein:

**FIGS. 1A and 1B** are schematic views of embodiments of a system 1;

**FIG. 1C** is a schematic view of the electric power supply of a lighting device 40;

**FIGS. 1D and 1E** are axonometric views of some details of the system 1, in particular FIG. 1D illustrates a beam 10 and FIG. 1E illustrate a lighting device 40;

**FIGS. 2, 3A and 4** are a sectional schematic view of different embodiments of some details of the partitioning system 1, with **FIG. 4B** showing some enlarged details of FIG. 4;

**FIG. 3B** is an exploded lateral view of the system 1.

#### Detailed description of some preferred embodiments

[0027] With reference to the mentioned figures, herein described is a system 1 installable in a space E, generally an open space, at a ceiling C or a false ceiling.

[0028] The system 1 may essentially include one or more longitudinal profiles 10 that can be connected to the ceiling C in a per se known manner. The longitudinal profiles 10 may be structural, in which case they are referred to as "beams", or not.

[0029] Even though beams will be referred to herein-

after, it is clear that the profiles may be structural or not, without departing from the scope of protection of the attached claims.

[0030] A plurality of panels 20 of the false ceiling and a plurality of elements 26 for the mutual connection of the panels 20 and the beams 10 may be possibly present.

[0031] Once the panels 20 and the beam 10 are connected, the latter may cooperate to define a main extension plane of the false ceiling  $\pi$ .

[0032] The beam 10 may have a substantially longitudinal extension defining an axis X and it may comprise a pair of lateral walls 11, 12 facing each other and an upper wall 13 designated to be faced towards the ceiling C.

[0033] The lateral walls 11, 12 may extend in respective planes substantially perpendicular to the false ceiling, i.e. they may be substantially perpendicular to the upper wall 13 so as to cooperate in a manner such that the beam 10 is substantially C-shaped.

[0034] It is clear that the lateral walls 11, 12 may be divided into two or more portions, without departing from the scope of protection of the attached claims.

[0035] The lateral walls 11, 12 and the upper wall 13 may thus mutually cooperate to define a compartment

14 open at the bottom part to removably, selectively and alternatively receive one or more accessories that perform one or more functions in the space E, for example a lighting device 40 or an accessory 30 for sustaining one or more partitioning walls or similar accessories. Furthermore, a protection element 50 operatively coupled with the lighting device 40 may possibly be provided for.

[0036] Each of the lateral walls 11, 12 of the beam 10 may include an upper edge 1100', 1200' facing towards the ceiling C and an upper edge 1100'', 1200'' opposite thereto and faced downwards.

[0037] The lateral walls 11, 12 may have inner surfaces 110', 120' and outer surfaces 110'', 120'', the latter being designated to remain facing the panels 20.

[0038] Elements 16 for connection with corresponding connection elements 26 of the panels 20 may be arranged externally to the beam 10. For example, the connection elements 16 may be seats or female elements 16' arranged at the outer surfaces 110'', 120'', while the connection elements 26 may be male elements 26'.

[0039] The connection elements 16 and the connection elements 26 may possibly be snap-coupled to each other.

[0040] For example, as illustrated in the attached figures, the lateral walls 11, 12 may comprise a pair of guides 17', 17'' facing each other and a step 18 cooperating with the former to define the guide rail 16'.

[0041] It is clear that the aforementioned male and female elements may also be inverted without departing from the scope of protection of the attached claims. For example, the connection elements 26 may include the female element and the connection elements 16 may include the male element.

[0042] The beam 10 and the panel 20 may be coupled

so as to enable the mutual sliding along a direction substantially parallel to the axis **X** and prevent the mutual sliding thereof along a direction substantially perpendicular with respect to the axis **X**, i.e. they may prevent the de-coupling of the beam **10** and of the panel **20**.

[0043] Thus, the panels **20** and the beam **10** may be connected in a simple and quick manner, without using screws, bolts or similar fixing elements. Furthermore, thanks to such characteristic, the positioning of the panel **20** may be varied slightly even when it is already connected with the beam **10**.

[0044] The maximum distance **d1** between the inner surfaces **110'**, **120'** of the walls **11**, **12** may be particularly large with respect to the general overall dimensions of the beam **10**. For example, such distance **d1** may be about 100 mm.

[0045] The distance **d2** between the upper edge **1100'**, **1200'** and the lower edge **1100"**, **1200"** of the respective walls **11**, **12** may be particularly small, for example lesser than 100 mm, preferably about 60 mm.

[0046] Such distance **d2** may thus define the height **h** of the beam **10**.

[0047] Thus, the beam **10** may suitably have particularly small overall dimensions and it may be particularly suitable to be installed in ceilings or false ceilings having low thickness. For example, such system **1** may use panels **20** having thicknesses comprised between 15 mm and 45 mm.

[0048] Furthermore, as shown in the attached figures, the panel **20** and the lower edge **1100'**, **1200"** may be substantially flushed so as to confer a high aesthetic appeal to the system **1**.

[0049] The beam **10** may suitably comprise one or more portions **19** to be coupled with the ceiling **C**. Such type of coupling may be of the per se known type.

[0050] On the other hand, the inner surfaces **110'**, **120'**, **130'** of the walls **11**, **12**, **13** may thus define the inner surface **140'** of the compartment **14**.

[0051] Furthermore, according to a particular aspect of the invention, the inner surface **140'** of the compartment **14** may be configured so as to have a low reflection, for example it may be substantially black, it may be painted black or it may be treated and/or covered with a high light absorption material.

[0052] Thus, the inner surface **140'** may appear as substantially dark to the user.

[0053] The space **E** may thus be captivating in that when the beam **10** is without accessories **30**, **40** or covering elements, the user inside the space **E** can see the dark, substantially black, beams **10** only.

[0054] Thus, there may be obtained a stark difference between the panels, generally light-coloured (white or grey) and the dark beam **10** so as to confer a particular aesthetic appeal to the system **1**.

[0055] As a matter of fact, the systems generally available in the market use covering elements coupled to the beam so as to be substantially aligned with the panels. Such covering elements are of the same colour as the

light colour of the panels so as to have chromatic continuity.

[0056] Such covering elements have a plurality of holes to ensure an appropriate sound insulation performance. In particular, the presence of the latter holes slightly varies the chromaticity of the covering element so as not to jeopardising aesthetic aspect of the entire system.

[0057] The beam **10** may comprise at least one portion **15** to enable the coupling of the accessory **30**, **40** with the beam **10**. Such coupling may preferably be of the removable type.

[0058] For example, male or female elements **15'** susceptible to snap-receive the partitioning accessory **30** may be provided for as illustrated in FIG. 3.

[0059] The system **1** may thus be multifunctional, i.e. it may be suitable to house a plurality of accessories in a removable manner so as to guarantee to the user the possibility of changing the configuration of the space **E** whenever required

[0060] For example, the accessories may be the lighting device **40** and/or the system **30** for sustaining one or more partitioning walls or further accessories may be provided for. The accessories may be of different type, for example, they may be service accessories such as lights, fire safety alarms, cable ducts and/or the like. Data cables, telephone cables or the like may be possibly inserted into the cable ducts.

[0061] The protection element **50** which may preferably be more or less transparent and/or reflecting to enable the light beams of the lighting device **40** to pass through, may possibly be provided for.

[0062] It is clear that the system **1** may comprise a plurality of beams **10** having the characteristics described above, each one of which may comprise one or more accessories **30**, **40**.

[0063] Should the need to vary the configuration of the system **1** arise, the appropriate accessory **30**, **40** may be suitably mounted upon removing the accessory **30**, **40** present, if present, from one or more of the beams **10**.

[0064] For example, should there arise the need to partition the space **E** of the open space type into a plurality of compartments, it may be sufficient to mount the accessory **30** for sustaining one or more partitioning walls, which for example may be made of glass or plasterboard, or mount one or more lighting devices **40**.

[0065] The beams **10** may possibly comprise several accessories simultaneously. However, the accessories **30**, **40** may preferably be selectively alternatively mountable on a beam **10**. In other words, the latter may receive the partitioning accessory **30** or one or more lighting devices **40**.

[0066] The latter may comprise conductive means **41** and at least one light source **40'**. In particular, an electric power supply line, for example the domestic power mains, electrically connected with the conductive means **41** may be provided for so that the latter power-supplies the light source **40'**.

[0067] The latter may for example comprise one or

more LED lights, possibly a spot of LED lights, i.e. a plurality of LEDs **40'** mounted on a special support structure of the known type. In particular, the LED lights **40'** may be electrically connected with the conductive means **41** so as to be power-supplied by the latter.

[0068] More in detail, the conductive means **41** may comprise a longitudinal guide rail **41'** and the LED lights **40'** may be coupled with the longitudinal guide rail **41'** so that the latter power-supplies the former.

[0069] Each device **40** may be substantially modular, i.e. it may be formed by two or more LED spots **40'**. For example, the device **40** may have a length of 600 mm (one spot), 1200 mm (two spots) or 1800 mm (three spots).

[0070] Each spot may comprise a high number of LEDs. For example, a spot measuring 600 mm long may comprise 294 LEDs **40'** arranged in 7 rows.

[0071] According to a particular aspect of the invention, the guide rail **41'** may be power-supplied at low voltage. Thus, the LED lights **40'** may too be power-supplied at low voltage.

[0072] The electronic devices are divided into electrical insulation classes as defined by the IEC (*International Electrotechnical Commission*). In particular, the device **40** may meet the insulation class III requirements according to the IEC.

[0073] Thus, the device **40** may be particularly safe, it may not be hazardous in case of contact with the human body, and thus does not require the earthing of the device.

[0074] For example, the voltage of the guide rail **41'** may be about 48 volts in direct current.

[0075] The electric power supply line may suitably be at low voltage (electricity generated by a low voltage battery) or there may be provided for at least one low voltage transformer **42** connected to the electric power supply line and arranged upstream of the of the guide rail **41'** so that the latter is power-supplied in low voltage (FIG. 1C).

[0076] There may be provided for a transformer **42** at each beam **10** so that it is connected with a guide rail **41'**, or the transformer **42** may be simultaneously connected electrically with a plurality of guide rails **41'**.

[0077] Furthermore, there may be possibly connected a plurality of consecutive guide rails **41'** connected to the same beam **10** with the same transformer **42**.

[0078] It is clear that the dimensioning and configuration of the transformer **42** may vary depending on the need, materials, length of the guide rail, or the current of the power mains that supply it with power.

[0079] In other words, the domestic mains (220 V in alternating current) may define the electric power supply line, while - due to the presence of the transformer - the guide rail **41'** and thus the LED lights **40'** may be power-supplied at low voltage (48 V in direct current).

[0080] This may allow avoiding the high number of cables and transformers which can generally be observed in such devices. Furthermore, the use of low voltage elec-

tric current makes the device particularly safe, with low risks for the users and operators and without requiring earthing.

[0081] Thus, the installation thereof will also be particularly simple, safe and quick.

[0082] A longitudinal profile **44** which may comprise one or more portions **46** for coupling with the beam **10**, for example at the upper wall **13** thereof, may be suitably provided for. Such coupling may be of any type of the per se known type.

[0083] The longitudinal profile **44** may have a shape similar to the shape of the beam **10**, with a pair of respective opposite lateral walls **47**, **48** and an upper wall **49** interposed therebetween so as to define a substantially C-shaped section.

[0084] The walls **47**, **48** may have a respective upper **4700'**, **4800'** and opposite lower **4700''**, **4800''** edge.

[0085] Once coupled, the longitudinal profile **44** may remain inside the compartment **14**. The former may preferably be coupled so that the lower edge **4700''**, **4800''** may remain substantially facing the lower edge **1100''**, **1200''** of the respective wall **11**, **12** and preferably flushed with the same.

[0086] The LED lights **40'** may suitably be coupled to the guide rail **41'** in any position so that the lighting device **40** and thus the system **1** adapts to the various needs for lighting the space **E**.

[0087] Furthermore, the LED lights **40'** may be removably coupled with the guide rail **41'** so as to enable to easily configure the arrangement of the former. More in particular, the LED lights **40'** may be coupled with the profile **44** in a per se known manner, while the latter may be coupled with the beam **10** as better outlined herein-after.

[0088] The device **40** may suitably comprise at least one adapter **43** for coupling the profile **44** with the beam **10**. Each device **40** may preferably comprise an adapter **43** in proximity of an end **44'** and an adapter **43** in proximity of the opposite end **44''** of the longitudinal profile **44**.

[0089] The adapter **43** may be coupled with the profile **44** in a per se known manner. For example, as shown in FIG. 3, by means of a screw-bolt system.

[0090] The guide rail **41'** may suitably comprise at least one magnet, for example a magnetic longitudinal bar, while the adapter **43** may be configured to be attracted by the magnet so as to couple the latter to the guide rail **41'**.

[0091] In other words, the adapter **43** may be coupled at the upper part with the guide rail **41'** by means of the mutual magnetic attraction action, and - at the lower part - with the longitudinal profile **44** by means of the screw-bolt system.

[0092] The magnetic coupling may for example be obtained so that the guide rail **41'** can sustain a weight of 5 Kg per linear metre, i.e. the configuration and characteristics of the magnetic bar and the adapter **43** may be such that the mutual attraction is substantially equal to or greater than such force.

[0093] The guide rail **41'** may be integrally coupled with the upper wall **13** of the beam **10** in a per se known manner, for example by means of self-tapping screws or screw-bolt systems.

[0094] As known, given that the lighting device **40** is under class III, there is no need for particular solutions for the safety or insulation of one or more parts thereof.

[0095] The LED lights **40'** may be all identical to each other or not. In any case, each LED light **40'** may be coupled with the guide rail **41'** by means of the adapters **43** described above in any position of any beam **10**.

[0096] It is clear that the electrical connections between each LED **40'** and the guide rail **41'** may be of the per se known type, for example by means of suitable cables passing through the adapter **43**.

[0097] As shown in FIG. 3, the system **1** may suitably comprise the lighting device **40** and the protection element **50** which may be at least partly optically transparent to enable the light beams to pass through.

[0098] The protection element **50** may comprise a pair of opposite longitudinal walls **51**, **52** and a horizontal wall **53** interposed therebetween so as to have a substantially C-shaped section. In particular, the latter horizontal wall **53** may be optically transparent and remain faced to the LED lights **40'**.

[0099] The protection element **50** may suitably be removably coupled with the snap-coupled lighting device **40**. For example, the protection element **50** may comprise a portion **55** for snap-coupling with the lighting device **40** (FIG. 3A).

[0100] In particular, the lateral walls **51**, **52** may have male or female elements defining such coupling portions while the longitudinal profile **44** may comprise coupling portions **45** comprising corresponding female or male elements **45'** configured to be snap-coupled with the former.

[0101] As described above, the same beam **10** may be coupled with different types of accessories. For example, in FIG. 4 there is shown a partitioning accessory **30** removably snap-coupled with the beam **10**.

[0102] In a per se known manner, the partitioning accessory **30** may also comprise a longitudinal profile **34** which may comprise, similarly to the longitudinal profile **44**, a pair of respective faced **37**, **38** and upper **39** lateral walls mutually interposed so as to define a substantially overturned C-shaped section. The longitudinal profile **34** may suitably comprise at least one portion **36** for coupling with the beam **10**. Each lateral wall **37**, **38** may for example comprise a male or female element **36'** to be snap-coupled with the corresponding female or male element **15'** of the beam **10**.

[0103] The longitudinal profile **34** may thus be configured to define a longitudinal profile **32** for a partitioning wall **W** formed by a single panel, or - despite not being shown in the attached figures - a plurality of substantially parallel longitudinal seats for a partitioning wall formed by two or more panels.

[0104] Such accessory **30** may for example be partic-

ularly suitable for glass doors or partitioning walls.

[0105] The invention is susceptible to numerous modifications and variants, all falling within the scope of protection of the attached claims. All details can be replaced by other technically equivalent elements, and the materials can be different depending on the technical needs, without departing from the scope of protection defined by the attached claims.

## Claims

1. A multifunctional system installable in a space (E) at a ceiling (C), comprising:

- at least one longitudinal profile (10) couplable with the ceiling (C);
- at least one first accessory and one second accessory (30, 40) that perform one or more functions in the space (E), said at least one first and one second accessory (30, 40) being alternatively and selectively removably couplable with said at least one longitudinal profile (10);

wherein said at least one profile (10) comprises a pair of lateral walls (11, 12) facing each other and an upper wall (13) designated to be faced towards the ceiling (C) cooperating with each other to internally define a compartment (14) open at the bottom for removably receiving said at least one first (30) or at least one second (40) accessory, wherein said at least one first or one second accessory (40) comprises:

- at least one longitudinal conductive guide rail (41') susceptible to be powered by means of electric power supply means;
- at least one light source (40') removably coupled with said at least one longitudinal conductive guide rail (41') so that the latter power-supplies the former;

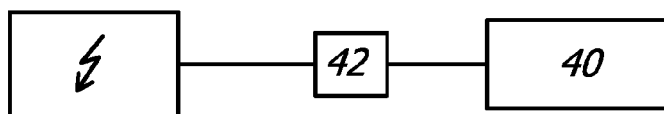
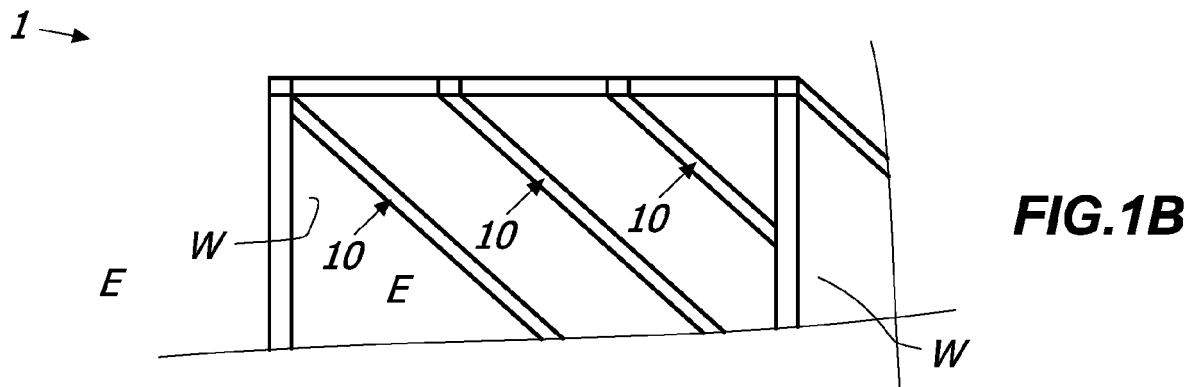
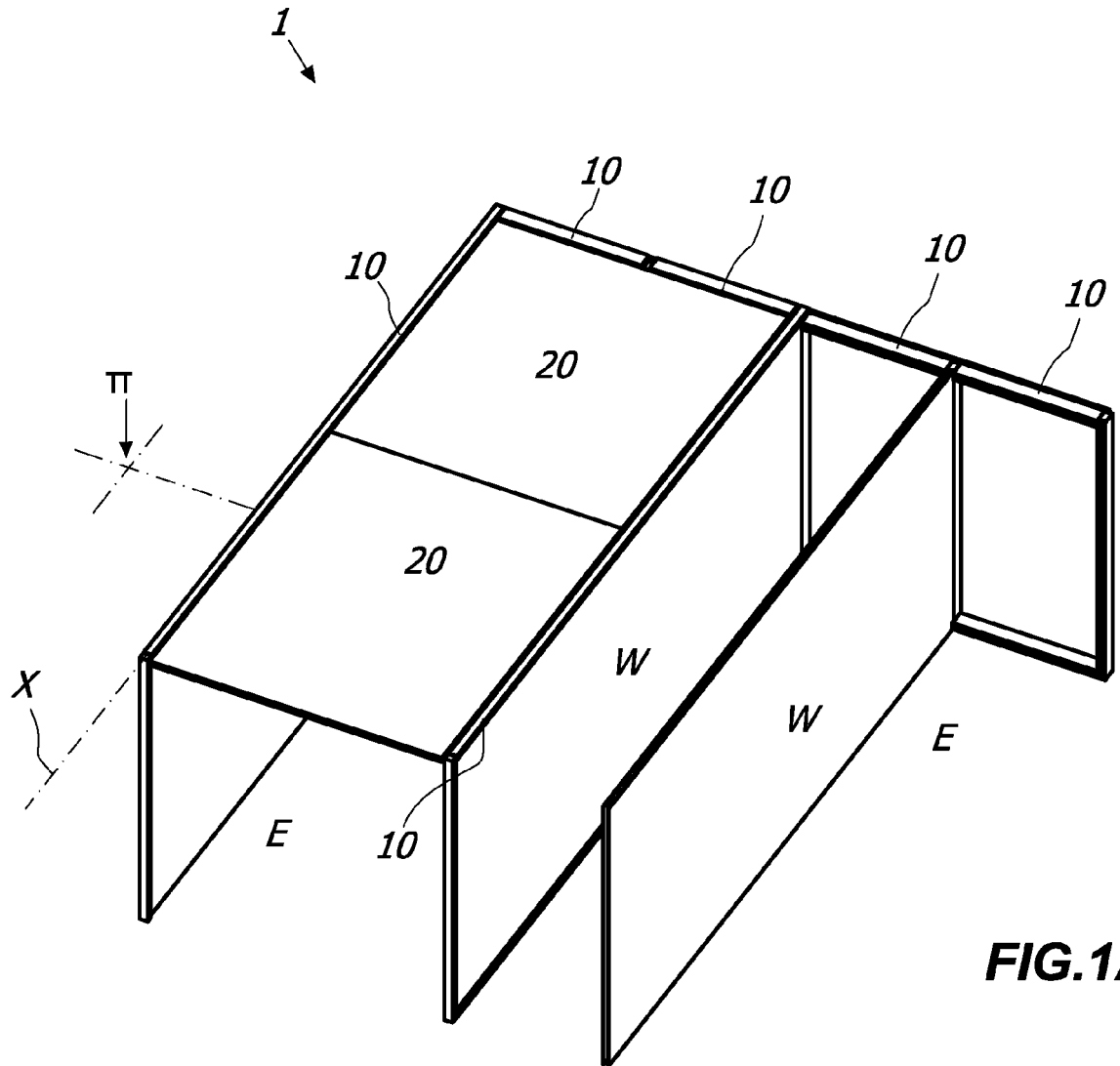
wherein said multifunctional system further comprises at least one low voltage transformer coupled or coupleable with said at least one profile (10) and electrically connected with said at least one longitudinal conductive guide rail (41') and with the electric power supply means so that said at least one light source (40') is power-supplied at low voltage.

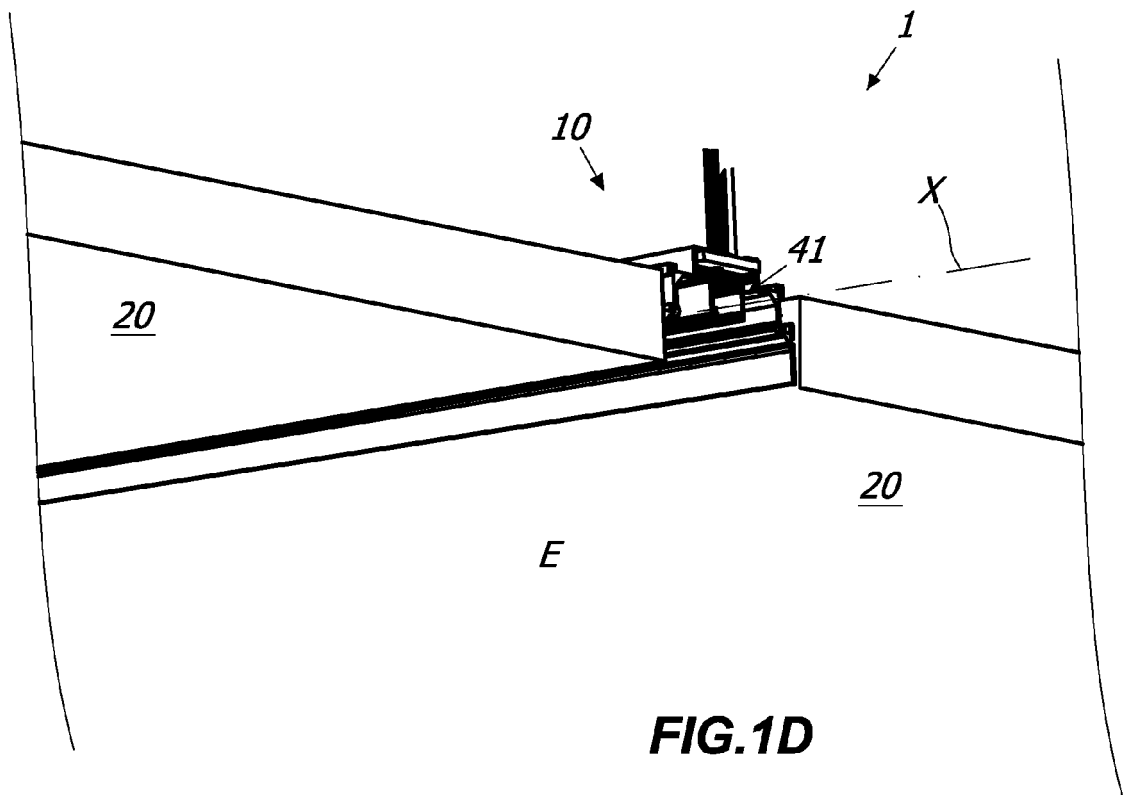
2. System according to the preceding claim, wherein said at least one light source (40') is operatively coupled with said at least one longitudinal conductive guide rail (41') at any position of the latter.

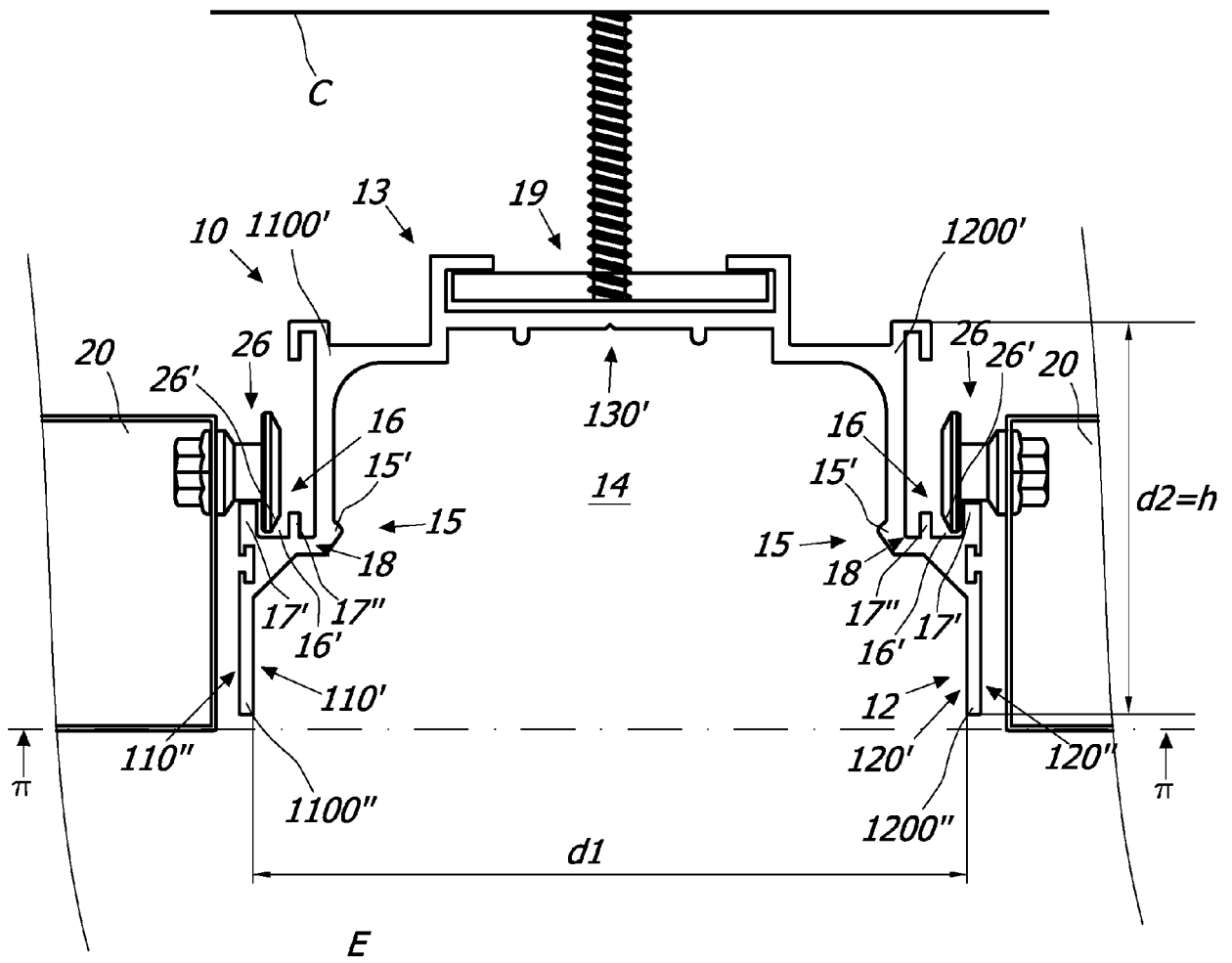
3. System according to claim 1 or 2, wherein said at least one second accessory (40) comprises at least one adapter element (43) operatively coupled with

- said at least one light source (40') and it is susceptible to be removably coupled with said at least one longitudinal conductive guide rail (41'), the latter and said adapter element (43) being mutually coupled by means of magnetic attraction.
4. System according to one or more of the preceding claims, wherein said at least one light source (40') is rotationally coupled with said at least one longitudinal conductive guide rail (41').
  5. System according to one or more of the preceding claims, wherein said light source (40') is power-supplied at low voltage in direct current.
  6. System according to one or more of the preceding claims, wherein said light source (40') is a LED or a spot of a plurality of LEDs, said light source (40') preferably comprising a plurality of modularly coupleable spots of LEDs all identical to each other.
  7. System according to one or more of the preceding claims, comprising a plurality of longitudinal profiles (10) each one of which having a respective at least one longitudinal conductive guide rail (41'), said light source (40') or said plurality of light sources (40') being coupleable to any one of said at least one longitudinal conductive guide rail (41') of said longitudinal profiles (10).
  8. System according to one or more of the preceding claims, comprising a plurality of longitudinal profiles (10) and a plurality of panels (20) coupleable with said longitudinal profiles (10) to obtain a false ceiling, wherein said lateral walls (11, 12) and said upper wall (13) have each an inner surface (110', 120', 130') defining the inner surface (140') of said compartment (14), wherein when said at least one first and one second accessory (30, 40) are de-coupled from said at least one longitudinal profile (10), said inner surface (140') of said compartment (14) is designated to remain exposed, wherein said panels (20) are light-coloured, said inner surface (140') of said compartment (14) being configured or treated so as to be dark-coloured.
  9. System according to the preceding claim, wherein said panels (20) are white or grey-coloured, said inner surface (140') of said compartment (14) being configured or treated to be black-coloured.
  10. System according to claim 8 or 9, wherein when said at least one first and one second accessory (30, 40) are de-coupled from said at least one longitudinal profile (10), said inner surface (140') of said compartment (14) remains exposed without any covering element of said longitudinal profiles (10).
  11. System according to claim 8, 9 or 10, wherein said lateral walls (11, 12) extend in respective planes substantially perpendicular to the false ceiling, said lateral walls (11, 12) having an upper edge (1100', 1200') faced towards the ceiling (C) and an opposite lower edge (1100", 1200") faced towards the space (E), the distance (d2) between said upper (1100', 1200') and lower (1100", 1200") edges defining the height (h) of said at least one longitudinal profile (10), the latter being lesser than 100 mm, preferably about 60 mm.
  12. System according to any one of claims 8 to 11, wherein said at least one first and one second accessory (30, 40) comprise at least one respective first and second portion (36, 46) for the removable coupling with said longitudinal profiles (10) inside said compartment (14).
  13. System according to the preceding claim, wherein said lateral walls (11, 12) comprise a respective third coupling portion (15), the latter and said first coupling portion (36) of said at least one first accessory (30) or said first and second coupling portions (36, 46) of said at least one first and one second accessory (30, 40) being mutually configured for snap-coupling.
  14. System according to any one of claims 8 to 13, wherein said lateral walls (11, 12) have each an outer surface (110", 120") comprising first elements (16) for coupling with said panels (20), the latter comprising second elements (26) for coupling with said first coupling elements (16) of said lateral walls (11, 12), said first coupling elements (16) of said lateral walls (11, 12) and said second coupling elements (26) of said panels (20) being preferably mutually coupleable in a removable manner.
  15. System according to the preceding claim, wherein said longitudinal profiles (10) and said panels (20) are mutually configured so that upon mutually coupling said first and second coupling elements (16, 26), said panels (20) are substantially flushed with said lower edge (1100", 1200") of said lateral walls (11, 12) of said longitudinal profiles (10) so as to ensure a substantial view continuity for the user.

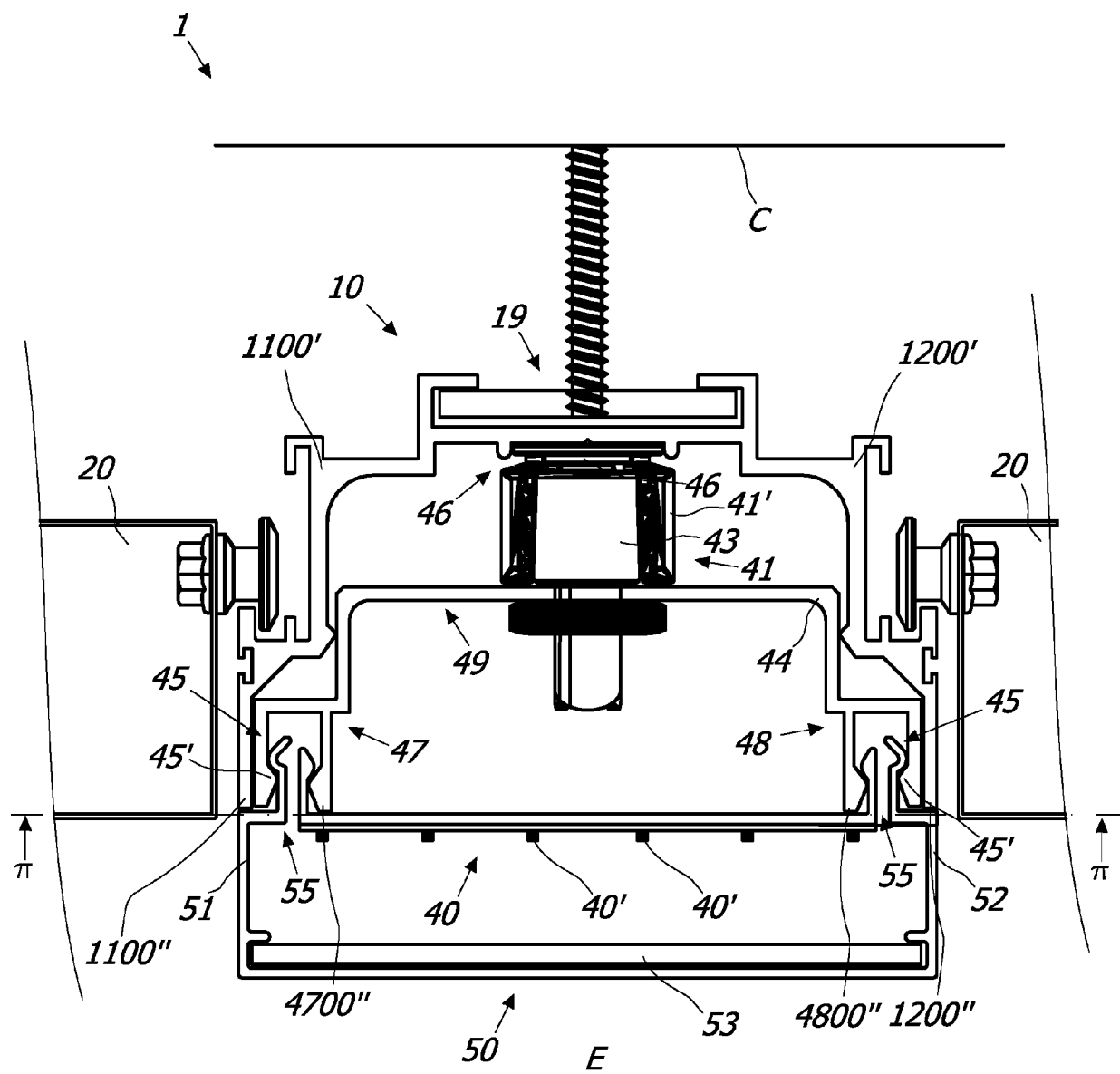




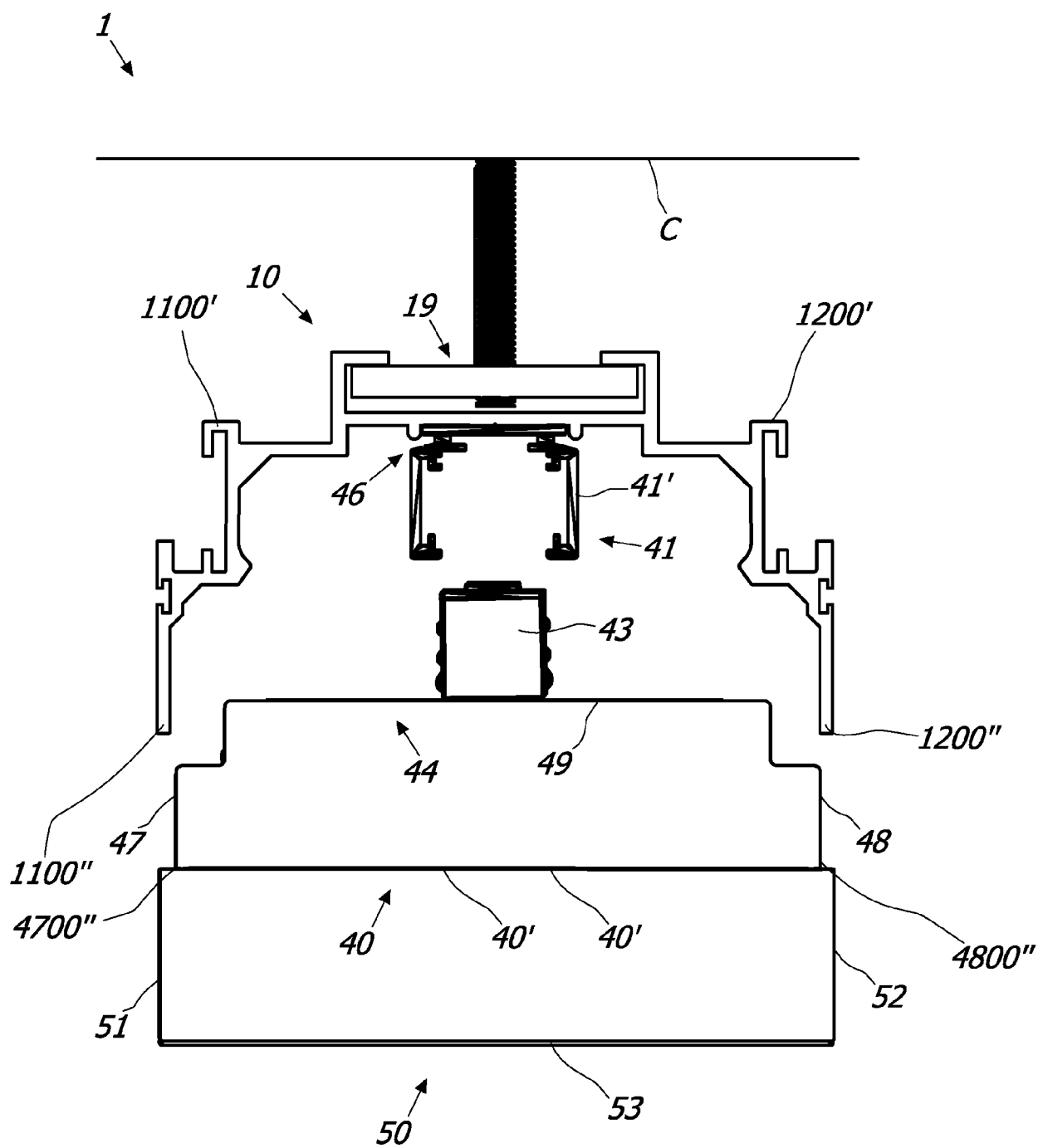




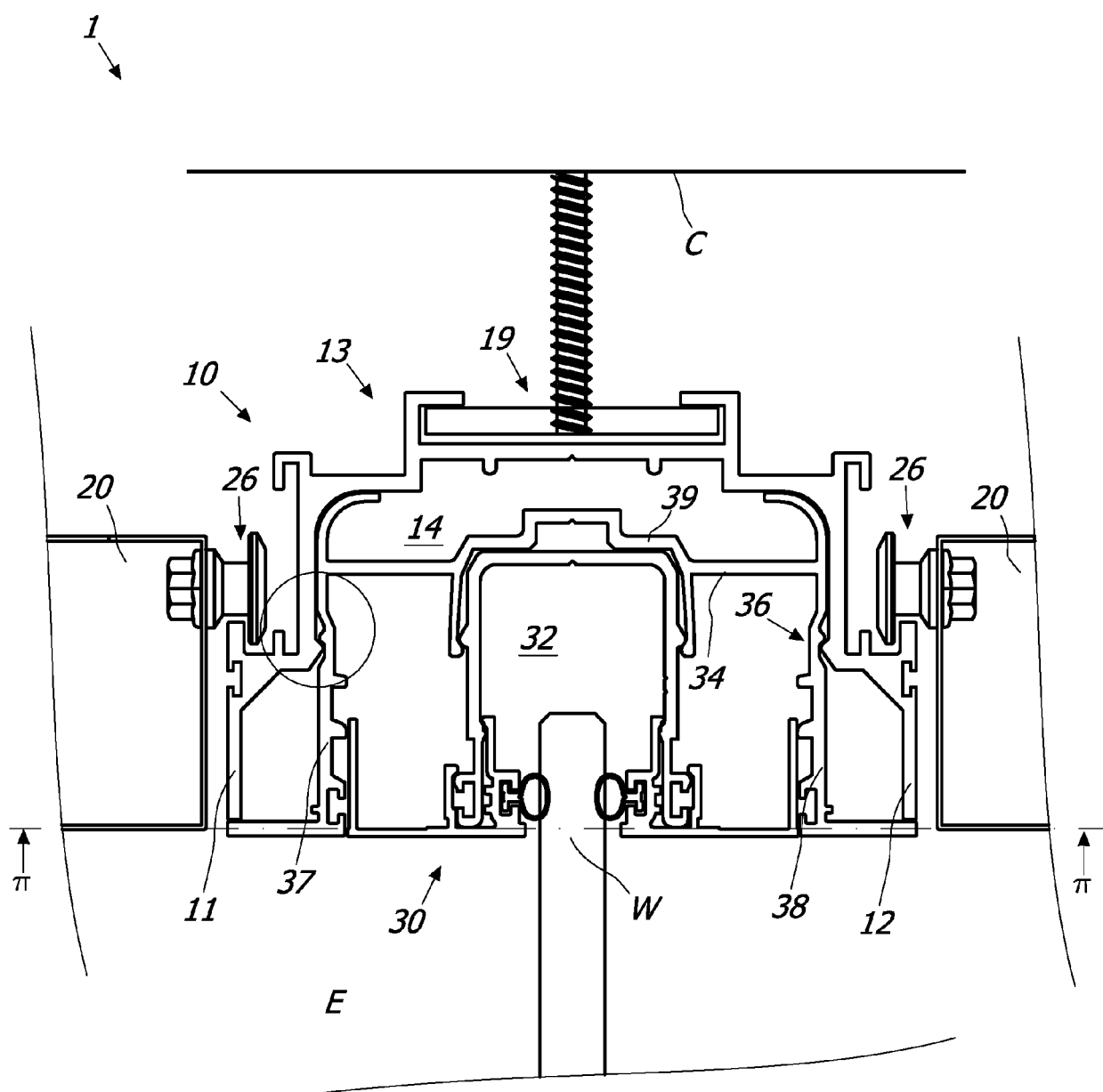
**FIG. 2**



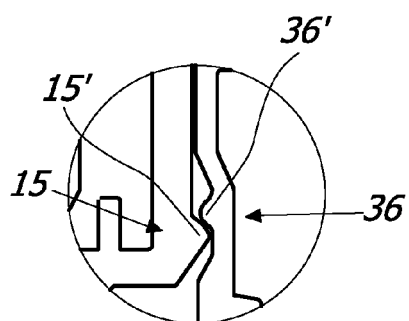
**FIG. 3A**



**FIG. 3B**



**FIG. 4**



**FIG. 4B**



## EUROPEAN SEARCH REPORT

Application Number  
EP 18 18 2154

5

10

15

20

25

30

35

40

45

50

55

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	DE 20 2006 002567 U1 (SURVEY ASIA MARKETING & CONSUL [HK]) 13 April 2006 (2006-04-13)	1,2,4-15	INV. E04B9/00 E04B9/28 F21S8/02 F21V21/04 F21V21/35
A	* paragraph [0030] - paragraph [0079]; figures 1-12 *	3	
X	WO 2017/021900 A1 (PRE METAL S P A [IT]) 9 February 2017 (2017-02-09)	1,2,4-15	ADD. E04B9/18 E04C3/04
A	* page 4, line 3 - page 29, line 29; figures 1-31 *	3	
A	EP 3 056 808 A1 (LU ZHOUBO [CN]) 17 August 2016 (2016-08-17)	1-15	
	* paragraph [0033] - paragraph [0059]; figures 1-19 *		
X	WO 2013/149679 A1 (ES SYSTEM S A [PL]; PILSZCZEK BOGUS AW [PL]; MAZURKIEWICZ HANNA MA GOR) 10 October 2013 (2013-10-10)	1	
A	* page 2, line 1 - page 5, line 16; figures 1-3 *	2-15	
X	EP 2 313 572 A1 (GEMINO S R L [IT]) 27 April 2011 (2011-04-27)	1,2,4-15	E04B E04C F21S F21V
A	* paragraph [0022] - paragraph [0096]; figures 1-12 *	3	
The present search report has been drawn up for all claims			
Place of search <b>The Hague</b>		Date of completion of the search <b>16 November 2018</b>	Examiner <b>Dieterle, Sibille</b>
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

EPO FORM 1503 03/82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.**

EP 18 18 2154

5

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on  
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

16-11-2018

10

15

20

25

30

35

40

45

50

55

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
DE 202006002567 U1	13-04-2006	DE 202006002567 U1	13-04-2006
		EP 1984582 A2	29-10-2008
		EP 2031145 A2	04-03-2009
		EP 2031146 A2	04-03-2009
		WO 2007093204 A2	23-08-2007
-----			
WO 2017021900 A1	09-02-2017	NONE	
-----			
EP 3056808 A1	17-08-2016	CN 105491704 A	13-04-2016
		EP 3056808 A1	17-08-2016
		WO 2016127288 A1	18-08-2016
		WO 2016127679 A1	18-08-2016
-----			
WO 2013149679 A1	10-10-2013	NONE	
-----			
EP 2313572 A1	27-04-2011	AT 544916 T	15-02-2012
		DK 2313572 T3	19-03-2012
		EP 2313572 A1	27-04-2011
		ES 2379325 T3	25-04-2012
		HR P20120169 T1	30-04-2012
		IT 1391041 B1	27-10-2011
		PL 2313572 T3	31-07-2012
		PT 2313572 E	23-03-2012
		SI 2313572 T1	31-07-2012
		US 2011131900 A1	09-06-2011
		WO 2009153674 A1	23-12-2009
-----			