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(54) **TABLE**

(57) Table (10), in particular multifunctional table (10) for providing separate eating and working portions, comprising a table plate structure (12) comprising a dining surface (14) for at least two persons, a standing structure (16) for supporting the table plate structure (12) on a base, in particular a floor, wherein the table plate structure (12) comprises at least one dining table plate (18) that comprises at least a section of a dining surface (14), wherein the table plate structure (12) comprises at least one working table plate (22) arranged with a height distance to the dining table plate (18), wherein the dining table plate (18) is adjustable, in particular pivotable, relative to the working table plate (22) from a lowered dining position into a raised working position, wherein the table plate structure (12), in a raised working position of the dining table plate (18), releases a workspace (24) being at least section wise defined by the working table plate (22), and wherein the table plate structure (12), in lowered dining position of the dining table plate (18), encloses the workspace (24) located between the working table plate (22) and the dining table plate (18).

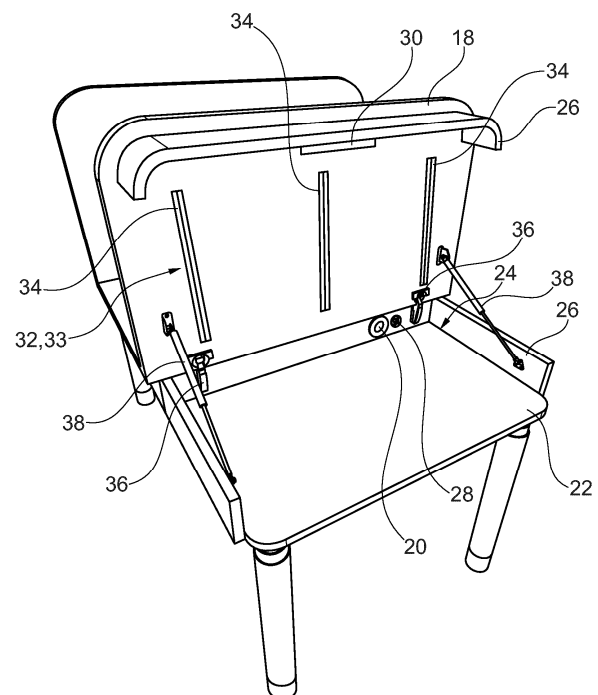


Fig. 2

Description

[0001] The present invention refers to a table, in particular to a multifunctional table for providing separate eating and working portions.

[0002] Tables that provide an eating portion and a separate working portion are known and used in private households to combine a table for eating and a table for working, for example for remote work. There are tables that have a dining surface and a work surface, with the work surface top being arranged below the dining surface and can be pulled out horizontally from under or relative to the dining surface top like a drawer. There are also tables where the dining surface can be adjusted, in particular pivoted, releasing the work surface by adjusting the dining surface.

[0003] In case of known tables, the work surface must be cleared after use, as there is insufficient space for work equipment when eating. In addition, dependent on the specific design, there is a risk that spilled liquids, crumbs or the like will enter the work area while eating and damage or destroy the respective work equipment.

[0004] Against the background set out above, the objective of the present invention has been to specify a table, which provides sufficient space for work equipment when using the table as a dining table, while at the same time the work equipment is sufficiently protected against damage.

[0005] With respect to the table this objective has been solved by the subject-matter of claim 1. Advantageous embodiments are subject of the dependent claims and are explained below.

[0006] According to the invention, a table, in particular a multifunctional table for providing separate eating and working portions, is provided. The table comprises a table plate structure comprising a dining surface for at least two persons and a standing structure for supporting the table plate structure on a base, in particular a floor.

[0007] The table plate structure further comprises at least one dining table plate that comprises at least a section of a dining surface and at least one working table plate. The working table plate is arranged with a height distance to the dining table plate.

[0008] The dining table plate is adjustable, in particular pivotable, relative to the working table plate from a lowered dining position into a raised working position. In a raised working position of the dining table plate, the table plate structure releases a workspace being at least section wise defined by the working table plate. In a lowered dining position of the dining table plate, the table plate structure encloses the workspace located between the working table plate and the dining table plate.

[0009] The table thus provides an easy way to switch between a dining position for eating or for using the table as a dining table on the one hand and a working

position for working on the other hand. By enclosing the workspace in the dining position of the dining table plate, space can be provided for work equipment so that work equipment can remain in the workspace when eating or using the table as a dining table. Unintentional access to the work equipment is then prevented. Furthermore, it can be prevented and/or made more difficult for spilled liquids and/or crumbs to enter the workspace and damage or destroy or contaminate the work equipment. Due to the enclosed workspace, the overall protection of the respective work equipment inside the workspace may be improved.

[0010] According to a preferred embodiment of the table, the working table plate extends along a horizontal plane or an at least substantially horizontal plane, which enables and/or simplifies ergonomic working.

[0011] According to a further preferred embodiment, the working table plate is, in a lowered position of the dining table plate, arranged beneath the dining table plate. The workspace is then enclosed and protected by the dining table plate in the dining position of the dining table plate, particularly from an upper side.

[0012] In a preferred manner, the working table plate is fixedly attached and/or unmovable and/or unpivotable relative to the standing structure. The working table plate is then kept particularly stable. The fixed design of the working table plate can prevent work equipment from unintentionally sliding down, being pushed aside and/or falling over or down from the table.

[0013] In a further preferred manner, the dining table plate extends, in a lowered dining position, along a horizontal plane or an at least substantially horizontal plane and/or parallel to the working table plate. Eating or dining at the table is then perceived as particularly pleasant. At the same time, it can prevent objects from sliding or falling off the dining table plate.

[0014] In a further preferred manner, dining table plate, in a raised working position, forms an angle of at least 60° relative to a horizontal plane and/or of more than 90° relative to the lowered dining position. The table then provides convenient access to the workspace in the raised working position of the dining table plate.

[0015] In particular, the dining table plate is pivotable by more than 90° between the lowered dining position and the raised working position, preferably by more than 100° or more than 105° or more than 110° or substantially 110° between the lowered dining position and the raised working position. The dining table plate is then not perceived as a hindrance during work and allows goof and comfortable access to the working space. Furthermore, objects, such as a monitor or screen, attached to the lower surface of the dining table plate may be viewed particularly comfortable from a user when using the workspace.

[0016] According to a preferred embodiment of the table, the workspace is, when the dining table plate is in the lowered dining position, closed off and/or sealed.

Preferably the workspace is closed off and/or sealed such that liquid spilled on the dining table plate is prevented from entering the workspace and/or unintentional and/or undesired access to workspace is prevented and/or damage of work equipment inside the workspace is prevented. The work material is thus particularly well protected from contamination, dirt and/or damage during any meal time or dining use of the table. The work equipment can thus be stored safely in the workspace.

[0017] According to a further preferred embodiment of the table, the working table plate comprises a smaller plate surface than the dining table plate. The working table plate is protected by the dining table plate in the dining position and shielded from objects placed on the dining table plate in an even improved manner.

[0018] According to a further preferred embodiment, the workspace is enclosed in the peripheral direction by a side wall or by a plurality of side walls. The workspace is further protected and/or shielded by the side wall or plurality of side walls.

[0019] According to a further preferred embodiment of the table, the dining table plate comprises at least one free side, which in the lowered dining position is formed as a free end of the dining table plate, and a hinge side associated with a pivot axis of the dining table plate. In particular the free side and the hinge side are arranged facing away from each other. The dining table plate can be gripped at the free end in the dining position and adjusted to the working position to release the workspace, which results in a simple adjustment mechanism and convenient useability.

[0020] According to a further preferred embodiment of the table, one of the side walls, in particular the side wall in a section associated with the hinge side and/or the side wall being arranged opposite to a free end of the dining table, comprises a cable tunnel for passing cables into the workspace. Work equipment and/or technical devices in the workspace can be permanently supplied with power and/or data signals through the cable tunnel.

[0021] One of the side walls, in particular the side wall in a section associated with the hinge side, can comprise an electrical connection, preferably a USB and/or socket connection. This means that a USB and/or socket connection is available in the workspace at all times, regardless of the position of the dining table plate. The useability of the table for work purposes may thereby be further improved.

[0022] Preferably, a lighting device is arranged on the underside of the dining table plate, in particular on the underside of the dining table plate in relation to the dining position of the dining table plate.

[0023] Additionally or alternatively, the lighting device may be arranged on a side wall being attached to the underside of the dining table plate, in particular on the underside of the dining table plate in relation to the dining position of the dining table plate. Preferably, the

lighting device may be arranged particularly on an inner side of a side wall, facing to the interior of the workspace, said side wall being attached to the underside of the dining table plate, in particular on the underside of the dining table plate in relation to the dining position of the dining table plate. In this way, when the dining table plate is in working position, particularly extending mainly along a vertical direction, the light may point downwards and may be located in front of a screen being attached to the underside of the dining table plate.

[0024] The lighting device may further be preferably configured to automatically turn on lighting in a working position of the dining table plate and/or when the dining table plate is being moved away from the lowered dining position. The lighting device may further be preferably configured to automatically turn off lighting in a dining position of the dining table plate and/or when the dining table plate is being moved away from the raised working position. The lighting device thus ensures that the workspace and/or working table plate can be sufficiently illuminated during work, while at the same time providing a convenient use of the table in view of turning the lighting device on and/or off by movement of the dining table plate.

[0025] According to a preferred embodiment of the table, a fastening system for fastening objects, such as a screen, is arranged on the underside of the dining table plate, in particular on the underside of the dining table plate in relation to the dining position of the dining table plate. The workspace and/or workplace can then be easily adapted and/or customized to the needs of the user.

[0026] Furthermore, apart from a screen or monitor, also an electrical device and/or accessory in general may be attached to the dining table plate, in particular via the fastening system for fastening objects.

[0027] The fastening system can comprise at least one threaded hole and/or a slot nut system with at least one rail for slot nuts for fastening objects, with which objects can be quickly and easily attached to the underside of the dining table plate. Such a fastening system also provides a high degree of assembly safety.

[0028] According to a preferred embodiment of the table, the dining table plate is connected to and/or supported relative to the table plate structure and/or to a side wall and/or an adjacent portion of the table plate structure by at least one hinge or a plurality of hinges, in particular a concealed hinge and/or a multi-joint hinge or a plurality of concealed hinges and/or multi-joint hinges and/or a bench seat hinge and/or a corner bench hinge and/or a corner bench hinge free of any spring. A simple-to-use and durable adjustment mechanism can be provided in this way.

[0029] According to a further preferred embodiment of the table, the dining table plate is connected to and/or supported relative to the table plate structure and/or to a side wall and/or an adjacent portion of the

table plate structure by at least one gas spring. The gas spring can be used to simplify the adjustment of the dining table plate and/or to allow it to be adjusted with little effort. In addition, the gas spring can be used to reliably secure the dining table plate in the working position to prevent it from being adjusted to the dining position.

[0030] In particular, the gas spring or the combination of gas springs arranged at or associated with a dining table plate comprises a spring force of at least 50 Nm, preferably at least 75 Nm, more preferably at least 100 Nm, more preferably at least 150 Nm, and/or less than 300 Nm, preferably less than 250 Nm, more preferably less than 200 Nm. Alternatively or additionally the gas spring is preferably configured to provide a holding force for maintaining at least a raised working position of the dining table plate and/or any position of the dining table plate.

[0031] Alternatively or additionally the dining table plate is preferably haltable by the gas spring in any position between the lowered dining position and the raised working position, particularly in an position or at any pivoting angle adjustable in a stepless manner. Adjusting the dining table plate can thereby be simplified and/or done with very little effort. At the same time, the dining table plate can be held in at least one predetermined position and/or arbitrary positions.

[0032] According to a further preferred embodiment of the table, the dining table plate and/or the working table plate is arranged at a short end of the table plate structure or at a long end of the table plate structure or at a portion of a table plate structure with a round shape. The workspace can then be located in different places on the table. The table plate structure can be of different shapes. The overall design flexibility may thereby be improved and the usability for different use purposes be improved.

[0033] According to a further preferred embodiment of the table, the table plate structure comprises at least two or more than two dining table plates, each dining table plate comprising at least a section of a dining surface. The two dining table plates may be operated independently from each other.

[0034] Preferably, two dining table plates are adjustable, in particular pivotable, relative to the or a working table plate from a lowered dining position into a raised working position, particularly independently from each other. The table may then advantageously provide two workspaces and/or work areas.

[0035] Alternatively or additionally two adjustable dining table plates are arranged on opposite sides of the table plate structure, in particular at opposite short ends or long ends of the table plate structure. The table may then advantageously provide two workspaces and/or work areas on opposite sides, whereby the usability for at least two users at opposite sides of the table is improved.

[0036] Additionally or alternatively, two or more ad-

justable dining table plates may be arranged on one side of the table plate structure, in particular at one short end or long end of the table plate structure. The table may then advantageously provide two or more workspaces and/or work areas on the same side, particularly the same long end or short end, whereby the usability for at least two users at the same side of the table is improved.

[0037] Alternatively, the table plate structure may comprise only one dining table plate, said dining table plate comprising at least a section of a dining surface.

[0038] According to a further preferred embodiment of the table, the table plate structure comprises at least two or more than two workspaces and/or at least two or more than two working table plates, each limiting a respective workspace.

[0039] Alternatively or additionally two workspaces and/or two working table plates are arranged at two opposite of the table plate structure, in particular at opposite short ends or long ends of the table plate structure. Alternatively, the table plate structure may comprise only one workspace and only one working table plate.

[0040] According to a further preferred embodiment of the table, a functional section adjoins the workspace and/or the dining table plate in the dining position, in particular the hinged side of the dining table plate, in a horizontal direction. The table can provide at least one additional function via the functional section, thereby further improving the usability and/or convenience for a user.

[0041] According to a further preferred embodiment of the table, the functional section is arranged as an intermediate section, preferably between two workspaces and/or between a workspace and a further section, which gives the table a uniform appearance and clear separation into different sections.

[0042] Preferably, the functional section and/or the intermediate section comprises at least a storage space for items and/or a plurality of compartments and/or at least one removable or hinged table plate section. The table may thus be designed to hold additional items, further increasing its functionality. In the case of a removable table plate section, the table can also be further customized by exchanging the removable table plate section.

[0043] Further preferably, the removable or hinged table plate section, when removed or upwardly pivoted, opens up a storage space for items and/or at least one compartment. Alternatively or additionally, the removable or hinged table plate section, when unremoved or downwardly maintained in closing position, is arranged adjacent to at least one dining table plate and/or comprises at least a section of a dining surface. The storage space can then be made accessible and covered with only little effort and high operational safety. The storage space can thus be made easily accessible and covered.

[0044] In a preferred embodiment, the dining table plate section is preferably connected to and/or supported relative to the table plate structure and/or to a side wall and/or an adjacent portion of the table plate structure by at least one gas spring. Pivoting the dining table plate section between different pivoting positions may thereby be facilitated.

[0045] According to a preferred embodiment of the table, the functional section and/or intermediate section comprises at least one drawer, in particular whereby the interior space of the drawer can be covered and/or accessed by means of a removable table plate section, which can further increase the functionality of the table.

[0046] Alternatively, the functional section and/or the entire table plate structure can be free of any drawer or drawer arrangement.

[0047] According to a further preferred embodiment of the table, the functional section and/or intermediate section comprises at least one removable or hinged table plate section or more than one or three or less than three or more than three removable or hinged table plate sections that adjoin one another, preferably along the hinge side of a dining table plate, each removable or hinged table plate section preferably releasing a separate storage space for objects or separate compartments when removed or upwardly pivoted. The table may then provide various separate and/or individualized areas for placing and/or storing items, thereby further improving the functionality.

[0048] Furthermore, a first removable or hinged table plate section, in particular a first outer removable or hinged table plate section, when removed or upwardly pivoted, reveals a technical compartment for accommodating cables, plugs, particularly multiple plugs and/or the like. The technical compartment can be used to supply the work area and/or workspace with electricity, cables, plugs or the like.

[0049] Preferably, a second outer table plate section, in particular a second outer removable or hinged table plate section, when removed or upwardly pivoted, reveals a drawer or drawer compartment. The drawer or drawer compartment is then also accessible from above without having to pull out the drawer or drawer compartment.

[0050] According to a further preferred embodiment of the table, the cable tunnel connects the technical compartment with the workspace or at least one of the workspaces. The workspace can be supplied with cables or the like via the cable tunnel, and therewith allow a particularly well arranged cable routing below the dining surface or within the table itself.

[0051] According to a further preferred embodiment of the table, a cable tunnel connects two compartments of the functional section. Alternatively or additionally, the storage spaces of the functional section arranged next to each other can be connected to each other via a connecting channel for passing objects, in particular cables, through them. The functional sections and/or

the compartments of the functional sections arranged next to each other are then connected and/or can be connected to each other via the cable duct. The routing of cables and/or other objects may thereby be further be improved.

[0052] According to a preferred embodiment, the functional section and/or intermediate section comprises a middle compartment, particularly arranged between two further compartments or between the technical compartment and the drawer compartment. The table then provides three different functional sections and/or compartments, therewith further improving the functionality of the cable.

[0053] According to a further preferred embodiment, the middle compartment is configured as a custom compartment and/or is configurable, particularly reconfigurable in a toolless manner. Alternatively or additionally, the middle compartment is covered by a removable or hinged and/or replaceable table plate section, in particular a table plate section being replaceable to customize the table plate structure. The table can then be customized and/or individualized with very little effort and/or cost, in order to change and/or individualize the appearance and/or functionality of the table.

[0054] Preferably, the removable or hinged and/or replaceable table plate section is flat and comprises a section of a dining surface and/or covers a storage area underneath. The removable or hinged and/or replaceable table plate section may then not only cover the storage area but also provides an area of the dining table plate.

[0055] In particular, the removable or hinged and/or replaceable table plate section and/or the middle compartment comprises an add-on arrangement, preferably a library, a tea station device, a decorative device, and/or a herb garden. The table can then provide further comfort functions.

[0056] According to a preferred embodiment of the table, the table plate structure comprises at least one collecting channel for collecting liquids, wherein said collecting channel or at least a collecting channel is preferably arranged below the dining table plate or below one of the dining table plates and/or below one or more removable or hinged dining table plate sections and/or extends along the hinge side of the dining table plate and/or perpendicular to a side wall associated with the hinge side.

[0057] According to a further preferred embodiment of the table, the collecting channel is arranged within a side wall limiting the workspace. Alternatively or additionally, the collecting channel or a collecting channel is preferably arranged below a gap between two dining table plates or between an adjustable dining table plate and a removable or hinged dining table plate section and/or between two removable or hinged dining table plate sections. Liquid that is spilled or which leaks out, especially on the dining table plate and/or dining table plate section, can then be collected by the collecting

channel. This effectively prevents the liquid from entering the workspace, thereby avoiding or reducing the risk of damage to working equipment in the workspace.

[0058] According to a further preferred embodiment of the table, the collecting channel or a collecting channel is, along a cross section, wider than a gap above the respective collecting channel, in particular a gap between two dining table plates or between an adjustable dining table plate and a removable or hinged dining table plate section and/or between two removable or hinged dining table plate sections. The collection of liquids and dirt can thus be further improved, which may lead to better operational safety of the table.

[0059] Preferably, the collecting channel is open ended on either side, in particular such that liquids can drain through said channel away from the workspace and/or out of the table plate structure. The collection channel is then accessible from the outside and/or one or both side of the table and can be cleaned quickly and easily, while liquid may also be guided out of the channel efficiently.

[0060] According to a preferred embodiment, the table may comprise at least one sealing element or a plurality of sealing elements. Such sealing element may particular be designed or configured as a flexible rubber weather seal and/or a window type rubber seal. The sealing element may at least section wise or entirely be arranged or fixed alongside the collecting channel or alongside the collecting channels.

[0061] Furthermore, the sealing element may be fixed to a side wall, in particular to a narrow end face of the respective side wall. The sealing element may also be fixed to the dining table plate, in particular to an underside of the dining table plate, particularly such that in a lowered dining position or closing position of the dining table plate, the sealing element is arranged adjacent to the corresponding collecting channel in order to provide a sealing functionality. The sealing element may also be fixed to a removable or hinged table plate section, in particular to an underside of a removable or hinged table plate section, particularly such that in a lowered dining position or a closing position of the removable or hinged table plate section, the sealing element is arranged adjacent to the corresponding collecting channel in order to provide a sealing functionality.

[0062] According to a preferred embodiment of the table, at least one side wall of the workspace, in particular a side wall facing a workspace user, is fixedly attached to the dining table plate and moves together with the dining table plate between a lowered dining position and a raised working position. The dining table plate can also be held and/or gripped on the side wall for adjustment. The accessibility of the workspace may thereby be further improved in a raised working position of the dining table plate.

[0063] According to a further preferred embodiment of the table, the side of the workspace facing a work-

space user is, in a raised working position of the dining table plate, free of a sidewall. The workspace is then designed to be particularly accessible for a user. In the working position, accessibility to the work area is not limited or restricted by a side wall on the side facing the user.

[0064] Preferably, the dining table plate and/or the table plate section and/or the side wall and/or the working table plate comprises solid wood and/or wood fiberboard and/or a veneer layer at least in sections.

[0065] Preferably, the standing element comprises a supporting structure, in particular a supporting frame, and/or a plurality of table legs, in particular table legs attached to the supporting frame.

[0066] Preferably, the table plate structure comprises a rectangular, oval square, or round shape in horizontal direction. In particular, the table plate structure comprises a length and/or diameter of at least 60 cm, preferably of at least 80cm, more preferably of at least 100 cm, more preferably of at least 120 cm, more preferably of at least 140 cm, more preferably of at least 160 cm, and/or a width of at least 40 cm, more preferably of at least 60 cm, more preferably of at least 80 cm, more preferably of at least 100 cm.

[0067] Preferably, the height of the top surface of the dining table plate in the dining position is at least 50 cm, more preferably of at least 60 cm, more preferably of at least 70 cm, and/or less than 150 cm, preferably less than 130 cm, more preferably less than 110 cm, more preferably less than 100 cm.

[0068] In the following, the invention is described by way of example on the basis of advantageous embodiments with reference to the accompanying figures.

[0069] It is shown in:

- Fig. 1 a perspective view of a table in a dining position according to the invention according to one embodiment,
- Fig. 2 a perspective view of the table in a working position,
- Fig. 3 a cross section of the table in the dining position,
- Fig. 4 a front view of the table in the working position,
- Fig. 5 a detailed cross section of the table in the working position,
- Fig. 6 a perspective view of the table with a drawer and a technical compartment, and
- Fig. 7 a perspective view of the table with a middle compartment.

[0070] Figure 1 shows a perspective view of a table 10, in particular of a multifunctional table 10 for provid-

ing separate eating and working portions according to an embodiment of the invention. Figure 2 shows a perspective view of the table of Figure 1 in a working position. Figure 3 shows a cross section of the table 10 of Figure 1 in the eating position. Figures 4 and 5 schematically show a detailed cross section of the table 10 in the working position.

[0071] The table 10 comprises a table plate structure 12 comprising a dining surface 14 for at least two persons. Further, the table 10 comprises a standing structure 16 for supporting the table plate structure 12 on a base, in particular a floor. The table plate structure 12 can be fixedly attached and/or unmovable and/or unpivotable relative to the standing structure 16.

[0072] The table plate structure 12 comprises at least one dining table plate 18 that comprises at least a section of a dining surface 14. The table plate structure 12 further comprises at least one working table plate 22 - as shown for example in Figure 2 - arranged with a height distance to the dining table plate 18. The working table plate 22 is preferably arranged under the dining table plate 18.

[0073] As shown in Figures 1 and 2, the dining table plate 18 is adjustable, in particular pivotable, relative to the working table plate 22 from a lowered dining position - shown Figures 1 and 3 - into a raised working position - shown in Figures 2, 4 and 5. In a raised working position of the dining table plate 18, the table plate structure 12 releases a workspace 24 being at least section wise defined by the working table plate 22, as for example shown in Figures 2 and 5.

[0074] In a lowered dining position of the dining table plate 18, as for example shown in Figures 1 and 3, the table plate structure 12 encloses the workspace 24 located between the working table plate 22 and the dining table plate 18. In particular, in the lowered dining position of the dining table plate 18 the table plate structure 12 may entirely enclose the workspace 24.

[0075] The dining table plate 18 and/or the working table plate 22 is preferably arranged at a short end of the table plate structure 12 or at a long end of the table plate structure 12 or at a portion of a table plate structure 12 with a round shape. In the example shown in the figures, the dining table plate 18 and/or the working table plate 22 is arranged at a short end of the table plate structure 12.

[0076] The working table plate 22 preferably extends along or parallel to a horizontal plane H or along or parallel to an at least substantially horizontal plane H, which makes it pleasant to work at.

[0077] The working table plate 22 may be fixedly attached and/or unmovable and/or unpivotable relative to the standing structure 16, which gives the table 10 a particularly high degree of stability.

[0078] The dining table plate 18 preferably extends, in a lowered dining position, along or parallel to a horizontal plane H or along or parallel to an at least substantially horizontal plane H and/or parallel to the work-

ing table plate 22 as shown in Figure 3.

[0079] Starting from the lowered dining position, the dining table plate 18 can be moved and/or adjusted, in particular pivoted, to a raised working position, as shown in Figures 2 and 5. In the raised working position, the dining table plate 18 can form an angle of at least 60° relative to a horizontal plane H and/or of more than 90° relative to the lowered dining position.

[0080] In particular, the dining table plate 18 is pivotable by more than 90° between the lowered dining position and the raised working position, preferably by more than 100° or more than 105° or more than 110° or substantially 110° between the lowered dining position and the raised working position.

[0081] When the dining table plate 18 is in the lowered dining position, as shown in Figures 1 and 3, the workspace 24 is, preferably, closed off and/or sealed. In particular, the workspace 24 is closed off and/or sealed such that liquid spilled on the dining table plate 18 is prevented from entering the workspace 24, when the dining table plate 18 is in the lowered dining position.

[0082] Preferably, the working table plate 22 comprises a smaller plate surface than the dining table plate 18. In the lowered dining position of the dining table plate 18, the workspace 24 can be enclosed in the peripheral direction by a side wall 26 or by a plurality of side walls 26.

[0083] The dining table plate 18 preferably comprises at least one free side 18a, which in the lowered dining position is formed as a free end of the dining table plate 18, and a hinge side 18b associated with a pivot axis A of the dining table plate 18. The free side 18a and the hinge side 18b are preferably arranged facing away from each other.

[0084] As shown in Figure 4, one of the side walls 26, in particular the side wall 26 in a section associated with the hinge side 18b, comprises a cable tunnel 29 for passing cables into the workspace 24. One of the side walls 26, in particular the side wall 26 in a section associated with the hinge side 18b, may comprise an electrical connection 20, preferably a USB and/or socket connection. The electrical connection 20 may be configured for power supply, in particular for power supply to an electrical appliance arranged within the workspace 24 or, if required, also outside the workspace 24.

[0085] Furthermore, one of the side walls 26, in particular the side wall 26 in a section associated with the hinge side 18b, may comprise a control device 28, preferably an electrical control device 28, particularly for controlling or initiating a change of the height of the entire table 10. For example, the control device 28 may control the drives of the table standing structure 16 for height adjustment. The table standing structure 16 may thus have adjustable legs being controlled by the control device 28. The control device 28 may comprise a control button to be operated by a user.

[0086] Furthermore, a control device - not shown

here in greater detail - may be arranged outside the workspace 24 and/or face outwards of the table 10, in particular face outwards relative to and/or from an interior space of the table 10. Again, such control device may be an electrical control device, particularly for controlling or initiating a change of the height of the entire table 10. Particularly, such a control device may be arranged on a sidewall 26 limiting the outer periphery of the table 10. Such a control device may further particularly be arranged on a sidewall 26 limiting the workspace 24 from an exterior space of the table 10 and the respective control device may face outwards from the workspace 24 to the exterior space of the table 10, in particular facing outwards from the workspace 24 to the exterior space of the table 10 in a lowered dining position of the dining table plate. Likewise such a control device may further particularly be arranged on a sidewall 26 limiting a technical compartment 52 - to be described hereinafter in greater detail - from an exterior space of the table 10 and such control device may face outwards from said technical department 52 to the exterior space of the table 10. This allows, for the control device to be operated also when the respective dining table plate 18 is in a lowered dining position, and the workspace 24 being closed and therefore not directly accessible for a user. Furthermore, such a control device facing the exterior space of the table 10 may be provided in addition to the control device 28 - as described above - facing the interior of the workspace 24. Alternatively, such a control device facing the exterior space of the table 10 may be provided instead of the control device 28 - as described above - facing the interior of the workspace 24.

[0087] In a preferred embodiment, a lighting device 30 - as indicated in Figure 2 and not shown in greater detail in Figures 4 and 5 - is arranged on the underside of the dining table plate 18, in particular on the underside of the dining table plate 18 in relation to the dining position of the dining table plate 18. In particular, the lighting device 30 may be arranged on a side wall 26 being attached to the underside of the dining table plate 18, in particular on the underside of the dining table plate 18 in relation to the dining position of the dining table plate 18. Preferably, the lighting device may be arranged particularly on an inner side of a side wall 26, facing to the interior of the workspace 24, said side wall 26 being attached to the underside of the dining table plate 18, in particular on the underside of the dining table plate in relation to the dining position of the dining table plate 18. When the dining table plate 18 is in working position, particularly extending mainly along a vertical direction, the light emitted from said lighting device 30 may point downwards and may be located in front of a screen being attached to the underside of the dining table plate 18.

[0088] The lighting device 30 is preferably configured to automatically turn on lighting in a raised working position of the dining table plate 18 and/or or when the

dining table plate 18 is being moved away from the lowered dining position. The user is thus automatically provided with light, particularly when using the workspace 24.

[0089] As shown in Figure 2, a fastening system 32 for fastening objects, such as a screen, can be arranged on the underside of the dining table plate 18, in particular on the underside of the dining table plate 18 in relation to the dining position of the dining table plate 18. In the raised working position, the user can look directly at the objects, in particular a screen, being mounted with or on such a fastening system 32.

[0090] The fastening system 32 preferably comprises at least one threaded hole and/or a slot nut system 33 with at least one rail 34 for slot nuts for fastening objects.

[0091] The dining table plate 18 is preferably connected to and/or supported relative to the table plate structure 12 and/or to a side wall 26 and/or an adjacent portion of the table plate structure 12 by at least one hinge 36 or a plurality of hinges 36. At least one hinge 36 or the plurality of hinges 36 can be a concealed hinge and/or a multi-joint hinge 36 or a plurality of concealed hinges 36 and/or multi-joint hinges 36.

[0092] It is also possible that the at least one hinge may be designed as a bench seat hinge and/or a corner bench hinge and/or a corner bench hinge free of any spring, which is not shown here in greater detail. Such a hinge may be connected to a side wall 26 extending between the hinge side 18b and the free side 18a.

[0093] To simplify the adjusting of the dining table plate 18, the dining table plate 18 may be connected to and/or supported relative to the table plate structure 12 and/or to a side wall 26 and/or an adjacent portion of the table plate structure 12 by at least one gas spring 38.

[0094] The gas spring 38 can comprise a spring force of at least 50 Nm, preferably at least 75 Nm, more preferably at least 100 Nm, more preferably at least 150 Nm, and/or less than 300 Nm, preferably less than 250 Nm, more preferably less than 200 Nm. Alternatively or additionally, the gas spring 38 is preferably configured to provide a holding force for maintaining at least a raised working position of the dining table plate 18 and/or any position of the dining table plate 18 and any accessories such as a screen being attached to the dining table plate 18. Alternatively or additionally, the dining table plate 18 is haltable by the gas spring 38 in any position between the lowered dining position and the raised working position, particularly in an position or at any pivoting angle adjustable in a stepless manner.

[0095] In a preferred embodiment, the table plate structure 12 may further comprise at least one locking device - not shown here in greater detail. Such a locking device may be configured for locking the workspace 24 and/or for locking a lowered dining position of the dining table plate 18. Such a locking device may further

be configured for unlocking the workspace 24 and/or for unlocking the dining table plate 18, in order for it to be able to be moved out of the lowered dining position. Such a locking device may furthermore be configured to be locked and/or unlocked by a mechanical key and/or an electrical key and/or to be electronically operated, for example by an RFID device and/or by entering a numerical code and/or by fingerprint detection and/or eye and/or iris scan and/or app-based. The locking device may also be configured as an attaching arrangement for the arrangement of a separate padlock, also not shown here in greater detail. The possibility of locking and unlocking the workspace 24 further increases the functionality of the table 10, in particular under safety considerations. Dependent on the specific use scheme of the table 10, also expensive working equipment may be positioned and/or installed in the workspace 24 and locked, if required in a specific situation, in order to prevent theft or undesired access to the workspace 24.

[0096] In a preferred embodiment, the table plate structure 12 comprises at least two or more than two dining table plates 18, each dining table plate 18 comprising at least a section of a dining surface 14, as shown for example in Figures 1, 2 and 3.

[0097] Preferably, two dining table plates 18 are adjustable, in particular pivotable, relative to the or a working table plate 22 from a lowered dining position into a raised working position, particularly independently from each other. Alternatively or additionally, two adjustable dining table plates 18 are arranged on opposite sides of the table plate structure 12, in particular at opposite short ends or long ends of the table plate structure 12.

[0098] In a further preferred embodiment, the table plate structure 12 comprises at least two or more than two workspaces 24 and/or at least two or more than two working table plates 22, each limiting a respective workspace 24.

[0099] Alternatively or additionally, two workspaces 24 and/or two working table plates 22 can be arranged at two opposite of the table plate structure 12, in particular at opposite short ends or long ends of the table plate structure 12.

[0100] Alternatively, the table plate structure 12 may comprise only one workspace 24 and only one working table plate 22, which is not shown here in greater detail.

[0101] As shown in Figure 1, 3, 5, 6 and 7, a functional section 40 preferably adjoins the workspace 24 and/or the dining table plate 18 in the dining position, in particular the hinge side 18b of the dining table plate 18, in a horizontal direction.

[0102] The functional section 40 can be arranged as an intermediate section, preferably between two workspaces 24 and/or between a workspace 24 and a further section.

[0103] The functional section 40 and/or the intermediate section preferably comprises at least a storage

space 42 for items and/or a plurality of compartments 44 and/or at least one removable or hinged table plate section 46.

[0104] As shown in Figures 6 and 7, the removable or hinged table plate section 46 can open up a storage space 42 for items and/or at least one compartment 44, when the table plate section 46 is removed or upwardly pivoted.

[0105] Alternatively or additionally, the removable or hinged table plate section 46, when unremoved or downwardly maintained in closing position, may be arranged adjacent to at least one dining table plate 18 and/or comprises at least a section of a dining surface 14.

[0106] The dining table plate section 46 can be connected to and/or supported relative to the table plate structure 12 and/or to a side wall 26 and/or an adjacent portion of the table plate structure 12 and/or at least one dining table plate 18 by at least one gas spring, which is likewise not shown here in greater detail.

[0107] The functional section 40 and/or intermediate section preferably comprises at least one drawer 48, in particular whereby the interior space of the drawer 48 can be covered and/or accessed by means of a removable table plate section 46. It is also possible that the functional section 40 and/or the entire table plate structure 12 is free of any drawer 48 or drawer arrangement.

[0108] The functional section 40 and/or intermediate section can comprise three removable or hinged table plate sections 46 that adjoin one another, preferably along the hinge side 18b of a dining table plate 18, each removable or hinged table plate section 46 releasing a separate storage space 42 for objects or separate compartments 44 when removed or upwardly pivoted.

[0109] The functional section 40 and/or intermediate section can also comprise only two or more than three removable or hinged table plate sections 46 that adjoin one another, preferably along the hinge side 18b of a dining table plate 18, each removable or hinged table plate section 46 releasing a separate storage space 42 for objects or separate compartments 44 when removed or upwardly pivoted.

[0110] The functional section 40 and/or intermediate section can also comprise only one removable or hinged table plate section 46, said removable or hinged table plate section 46 releasing a storage space 42 for objects or a compartment 44 when removed or upwardly pivoted.

[0111] In a preferred embodiment, a first removable or hinged table plate section 46, in particular a first outer removable or hinged table plate section 46, when removed or upwardly pivoted, reveals a technical compartment 52 for accommodating cables, plugs, particularly multiple plugs and/or the like.

[0112] Preferably, a second outer table plate section 46, in particular a second outer removable or hinged table plate section 46, when removed or upwardly pivoted, reveals a drawer 48 or drawer compartment 50.

[0113] In particular, the cable tunnel 29 connects the technical compartment 52 with the workspace 24 or at least one of the workspaces 24. Cables and/or plugs can be fed to the workspace 24 from the technical compartment 52, in particular via the cable tunnel 29 from the technical compartment 52 to the workspace 24.

[0114] In a further preferred embodiment, a cable tunnel or connecting channel 54 connects two compartments 44 of the functional section 40. Particularly, storage spaces 42 of the functional section 40 arranged next to each other can be connected to each other via a connecting channel 54 for passing objects, in particular cables, through them.

[0115] Furthermore, technical compartment 52 may comprise a vent, in particular for ventilation and/or cooling the interior space of the technical compartment 52. Such a vent - not shown here in greater detail - may have the form of a venting channel and/or be provided in a sidewall 26 of the technical compartment 52, said sidewall 26 preferably limiting the technical compartment 52 relative to an exterior space of the table 10. The vent may thus face an exterior space of the table 10.

[0116] Furthermore, the technical compartment 52 may comprise a cable pass through - not shown here in greater detail - being arranged in a sidewall 26 of the technical compartment 52, said sidewall 26 preferably limiting the technical compartment 52 relative to an exterior space of the table 10. Cables may be passed from an exterior space of the table 10 into the technical compartment via such cable pass through. Also, such a cable pass through may be combined with and/or adjacently arranged to a vent, as described above.

[0117] The functional section 40 and/or intermediate section can comprise a middle compartment 56, particularly arranged between two further compartments 44 or between the technical compartment 52 and the drawer compartment 50.

[0118] The middle compartment 56 can be configured as a custom compartment and/or can be configurable, particularly reconfigurable in a toolless manner. Alternatively or additionally the middle compartment 56 is preferably covered by a removable or hinged and/or replaceable table plate section 46, in particular a table plate section 46 being replaceable to customize the table plate structure 12.

[0119] The removable or hinged and/or replaceable table plate section 46 can be flat and comprise a section of a dining surface 14 and/or cover a storage area underneath.

[0120] The removable or hinged and/or replaceable table plate section 46 and/or the middle compartment 56 can comprise an add-on arrangement 58, preferably a library, a tea station device, a decorative device, and/or a herb garden.

[0121] Furthermore, the table plate structure 12 comprises at least one collecting channel 60 for collecting liquids. The collecting channel 60 is preferably ar-

ranged below the dining table plate 18 or below one of the dining table plates 18 and/or extends along the hinge side 18b of the dining table plate 18. Furthermore, the collecting channel 60 or a connecting channel 60 may extend below the gaps being present between dining table plate sections 46. Accordingly, the collecting channel 60 or a connecting channel 60 may extend perpendicular to hinge side 18b, particularly perpendicular to a side wall 26 associated with a hinge side 18b.

[0122] The collecting channel 60 is preferably arranged within a side wall 26 limiting the workspace 24. Alternatively or additionally, the collecting channel 60 can be arranged below a gap between two dining table plates 18 or between an adjustable dining table plate 18 and a removable or hinged dining table plate 26 section.

[0123] The collecting channel 60 may, preferably, be along a cross section, wider than a gap 62 above the respective collecting channel, in particular a gap 62 between two dining table plates 18 or between an adjustable dining table plate 18 and a removable or hinged dining table plate section 46.

[0124] In a preferred embodiment, the collecting channel 60 is open ended on either side, particularly either sides along a horizontal direction, in particular such that liquids can drain through said channel away from the workspace 24 and/or out of the table plate structure 12.

[0125] Preferably, at least one side wall 26 of the workspace 24, in particular a side wall 26 facing a workspace user, is fixedly attached to the dining table plate 18 and moves together with the dining table plate 18 between a lowered dining position and a raised working position as shown in Figures 4 and 5.

[0126] The side of the workspace 24 facing a workspace user is preferably, in a raised working position of the dining table plate 18, free of a sidewall 26.

[0127] The dining table plate 18 and/or the table plate section 46 and/or the side wall 26 and/or the working table plate 22 can comprise solid wood and/or wood fiberboard and/or a veneer layer at least in sections.

[0128] The standing structure 16 preferably comprises a supporting structure, in particular a supporting frame, and/or a plurality of table legs, in particular table legs attached to the supporting frame.

Reference signs

[0129]

10	table
12	table plate structure
14	dining surface
16	standing structure
18	dining table plate
18a	free side
18b	hinge side

20 electrical connection
 22 working table plate
 24 workspace
 26 side wall
 28 control device
 29 cable tunnel
 30 lighting device
 32 fastening system
 33 slot nut system
 34 rail
 36 hinge
 38 gas spring
 40 functional section
 42 storage space
 44 compartment
 46 table plate section
 48 drawer
 50 drawer compartment
 52 technical compartment
 54 connecting channel
 56 middle compartment
 58 add-on arrangement
 60 collecting channel
 62 gap
 A pivot axis
 H horizontal plane

Claims

1. Table (10), in particular multifunctional table for providing separate eating and working portions, comprising:
 - a table plate structure (12) comprising a dining surface (14) for at least two persons,
 - a standing structure (16) for supporting the table plate structure (12) on a base, in particular a floor,
 - wherein the table plate structure (12) comprises at least one dining table plate (18) that comprises at least a section of a dining surface (14),
 - wherein the table plate structure (12) comprises at least one working table plate (22) arranged with a height distance to the dining table plate (18),
 - wherein the dining table plate (18) is adjustable, in particular pivotable, relative to the working table plate (22) from a lowered dining position into a raised working position,
 - wherein the table plate structure (12), in a raised working position of the dining table plate (18), releases a workspace (24) being at least section wise defined by the working table plate (22), and
 - wherein the table plate structure (12), in lowered dining position of the dining table plate (18), encloses the workspace (24) located be-

tween the working table plate (18) and the dining table plate (22).

2. Table (10) according to claim 1, **characterized in that** the working table plate (22) is fixedly attached and/or unmovable and/or unpivotable relative to the standing structure (16).
3. Table (10) according to claim 1 or 2, **characterized in that** the dining table plate (18) is pivotable by more than 90° between the lowered dining position and the raised working position, preferably by more than 100° or more than 105° or more than 110° or substantially 110° between the lowered dining position and the raised working position.
4. Table (10) according to one of the proceeding claims, **characterized in that** the workspace (24) is, when the dining table plate (18) is in the lowered dining position, closed off and/or sealed, preferably such that liquid spilled on the dining table plate (18) is prevented from entering the workspace (24) and/or unintentional and/or undesired access to workspace (24) is prevented and/or damage of work equipment inside the workspace (24) is prevented.
5. Table (10) according to one of the proceeding claims, **characterized in that** a lighting device (30) is arranged on the underside of the dining table plate (18) and/or on a side wall (26) being attached to the underside of the dining table plate (18) in relation to the dining position of the dining table plate (18), wherein the lighting device (30) is preferably configured to automatically turn on lighting in a working position of the dining table plate (18) and/or or when the dining table plate (18) is being moved away from the lowered dining position.
6. Table (10) according to one of the proceeding claims, **characterized in that** a fastening system (32) for fastening objects, such as a screen, is arranged on the underside of the dining table plate (18), in particular on the underside of the dining table plate (18) in relation to the dining position of the dining table plate (18), and/or **in that** the fastening system (32) comprises at least one threaded hole and/or a slot nut system (33) with at least one rail (34) for slot nuts for fastening objects.
7. Table according to one of the proceeding claims, **characterized in that** the dining table plate (18) is connected to and/or supported relative to the table plate structure (12) and/or to a side wall (26) and/or an adjacent portion of the table plate structure (12) by at least one gas spring (38) and/or **in that** the gas spring (38) comprises a spring force of at least

- 50 Nm, preferably at least 75 Nm, more preferably at least 100 Nm, more preferably at least 150 Nm, and/or less than 300 Nm, preferably less than 250 Nm, more preferably less than 200 Nm and/or **in that** the gas spring (38) is preferably configured to provide a holding force for maintaining at least a raised working position of the dining table plate (18) and any attached accessories, such as a screen, and/or any position of the dining table plate (18) and/or **in that** the dining table plate (18) is haltable by the gas spring (38) in any position between the lowered dining position and the raised working position, particularly in an position or at any pivoting angle adjustable in a stepless manner.
8. Table (10) according to one of the proceeding claims, **characterized in that** the table plate structure (12) comprises at least two or more than two dining table plates (18), each dining table plate (18) comprising at least a section of a dining surface (14) and/or **in that** two dining table plates (18) are adjustable, in particular pivotable, relative to the or a working table plate (22) from a lowered dining position into a raised working position, particularly independently from each other, and/or **in that** two adjustable dining table plates (18) are arranged on opposite sides of the table plate structure (12), in particular at opposite short ends or long ends of the table plate structure (12).
9. Table (10) according to one of the proceeding claims, **characterized in that** the table plate structure (12) comprises at least two or more than two workspaces (24) and/or at least two or more than two working table plates (22), each limiting a respective workspace (24) and/or **in that** two workspaces (24) and/or two working table plates (22) are arranged at two opposite of the table plate structure (12), in particular at opposite short ends or long ends of the table plate structure (12), or **in that** the table plate structure (12) comprises only one workspace (24) and only one working table plate (22).
10. Table (10) according to one of the proceeding claims, **characterized in that** a functional section (40) adjoins the workspace (24) and/or the dining table plate (18) in the dining position, in particular the hinge side (18b) of the dining table plate (18), in a horizontal direction, and/or **in that** the functional section (40) is arranged as an intermediate section, preferably between two workspaces (24) and/or between a workspace (24) and a further section.
11. Table (10) according to one claim 10, **characterized in that** the functional section (40) and/or intermediate section comprises at least one removable or hinged table plate section (46) or more than one or three removable or hinged table plate sections (46) that adjoin one another, preferably along the hinge side (18b) of a dining table plate (18), each removable or hinged table plate section (46) releasing a separate storage space (42) for objects or separate compartments (44) when removed or upwardly pivoted, and/or **in that** a first removable or hinged table plate section (46), in particular a first outer removable or hinged table plate section (46), when removed or upwardly pivoted, reveals a technical compartment (52) for accommodating cables, plugs, particularly and/or multiple plugs, wherein preferably a cable tunnel (28) connects the technical compartment (52) with the workspace (24) or at least one of the workspaces (24).
12. Table (10) according to one of claims 10 or 11, **characterized in that** a cable tunnel (28) connects two compartments (44) of the functional section (40) and/or **in that** storage spaces (42) of the functional section (40) arranged next to each other are connected to each other via a connecting channel (54) for passing objects, in particular cables, through them.
13. Table (10) according to one of the proceeding claims, **characterized in that** the table plate structure (12) comprises at least one collecting channel (60) for collecting liquids, wherein said collecting channel (60) or at least a collecting channel (60) is preferably arranged below the dining table plate (18) or below one of the dining table plates (18) and/or below one or more removable or hinged dining table plate sections (46) and/or extends along the hinge side (18b) of the dining table plate (18) and/or perpendicular to a side wall (26) associated with the hinge side (18b).
14. Table (10) according to claim 13, **characterized in that** the collecting channel (60) is arranged within a side wall (26) limiting the workspace (24) and/or **in that** the collecting channel (60) is arranged below a gap (62) between two dining table plates (18) or between an adjustable dining table plate (18) and a removable or hinged dining table plate section (46) and/or between two removable or hinged dining table plate sections (46) and/or **in that** the collecting channel (60) is, along a cross section, wider than a gap (62) above the respective collecting channel (60), in particular a gap (62) between two dining table plates (18) or between an adjustable dining table plate (18) and a removable or hinged dining table plate section (46) and/or between two removable or hinged dining table plate sections (46).
15. Table (10) according to any one of the preceding

claims, **characterized in that** the workspace (24) is enclosed in the peripheral direction by a side wall (26) or by a plurality of side walls (26) and **in that** at least one side wall (26) of the workspace (24), in particular a side wall (26) facing a workspace user, is fixedly attached to the dining table plate (18) and moves together with the dining table plate (18) between a lowered dining position and a raised working position and/or **in that** the side of the workspace (24) facing a workspace user is, in a raised working position of the dining table plate (18), free of a sidewall (26).

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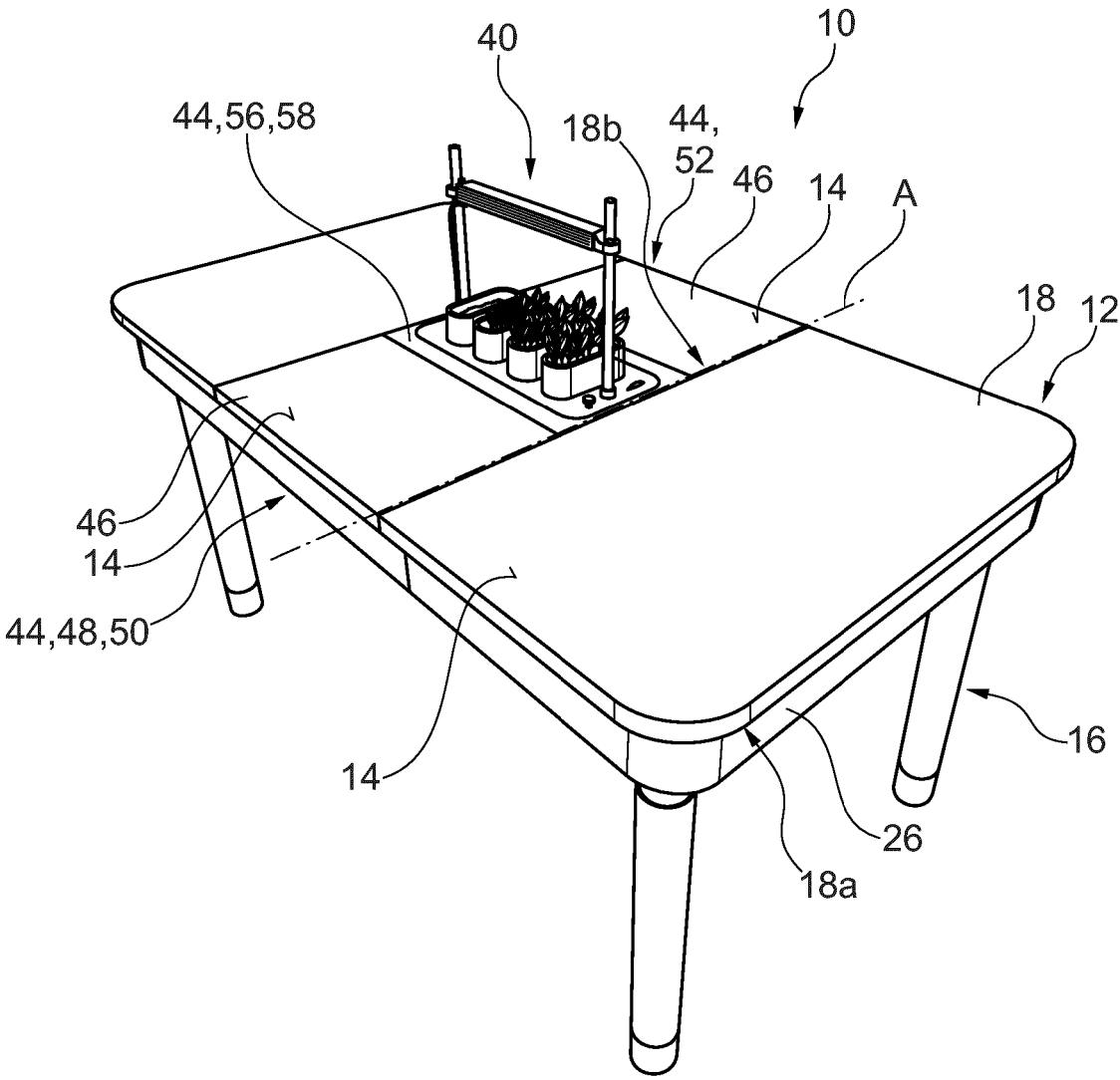


Fig. 1

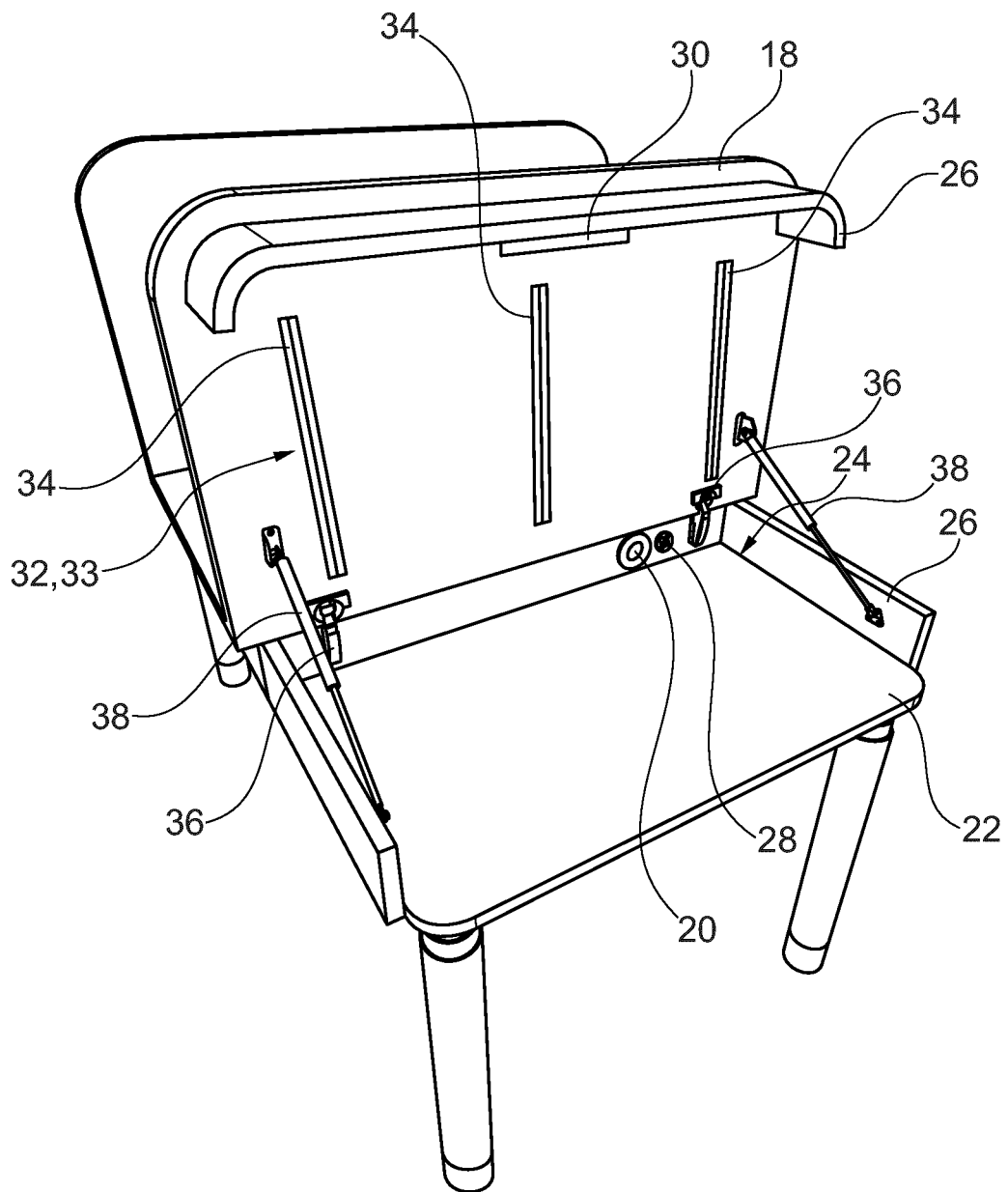


Fig. 2

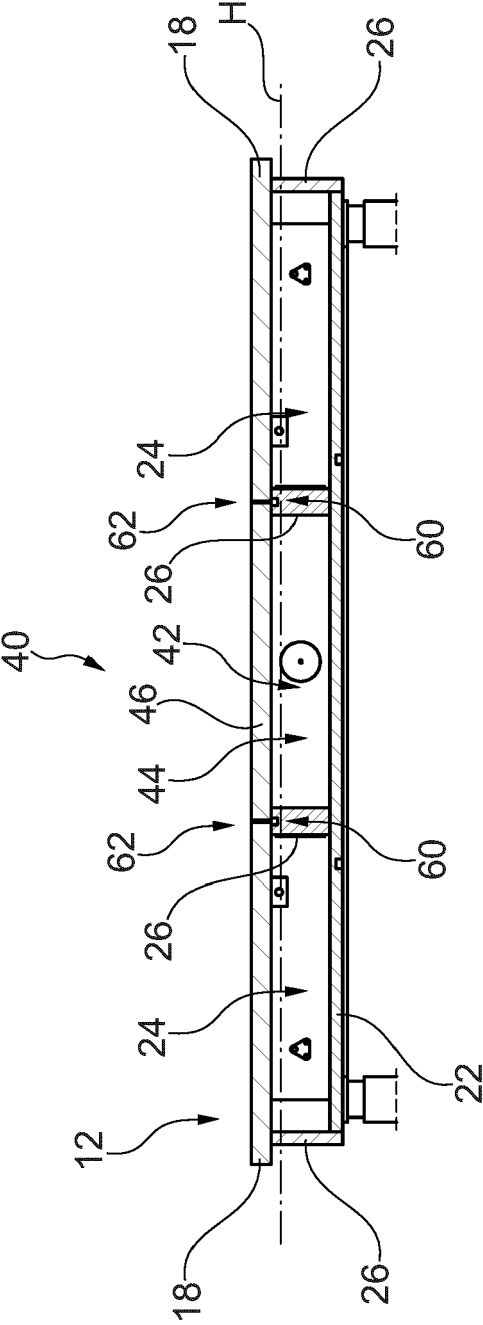


Fig. 3

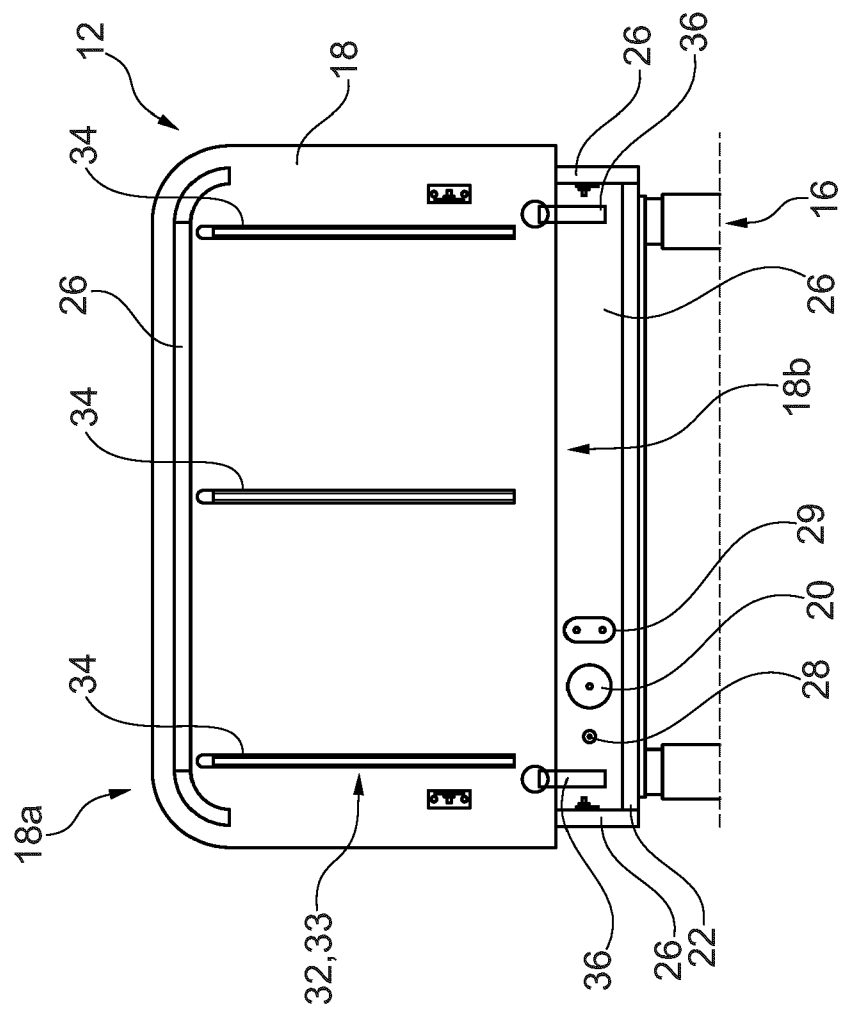


Fig. 4

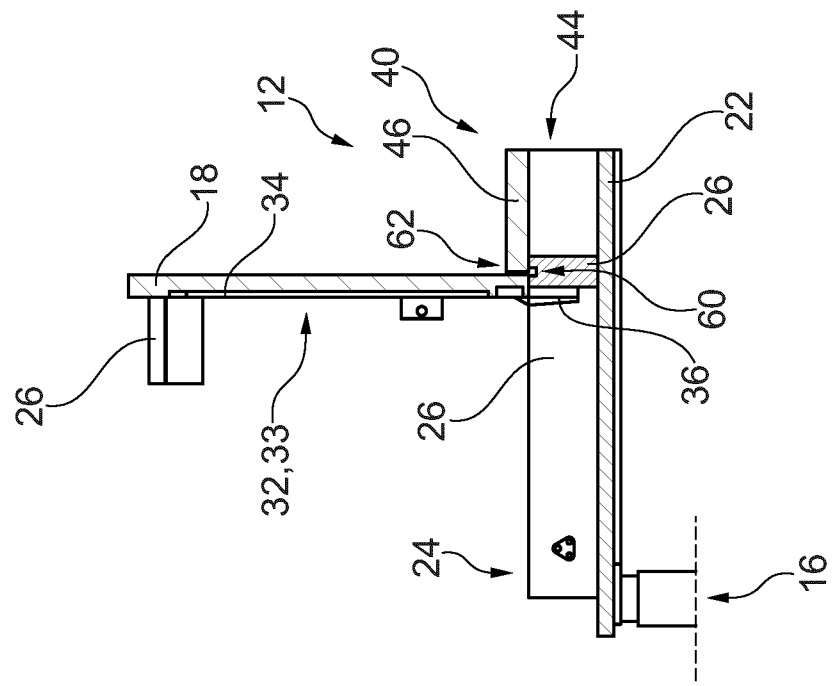


Fig. 5

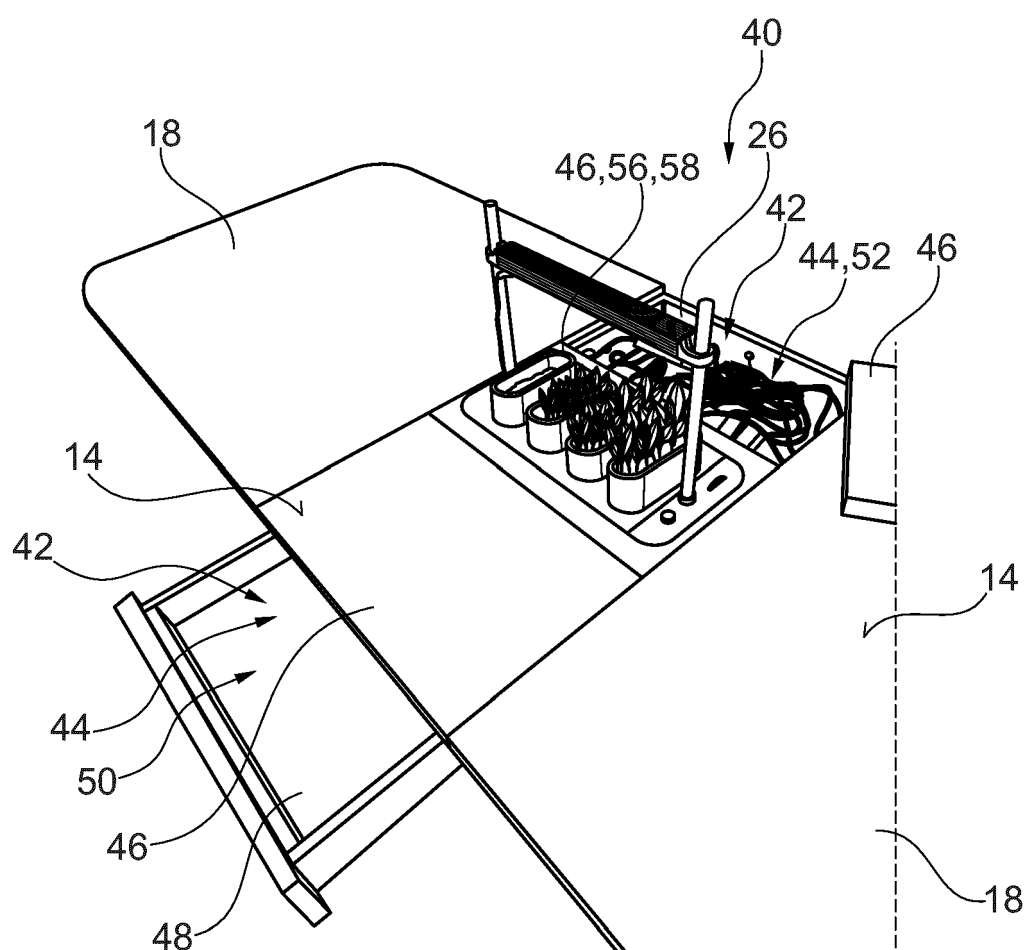


Fig. 6

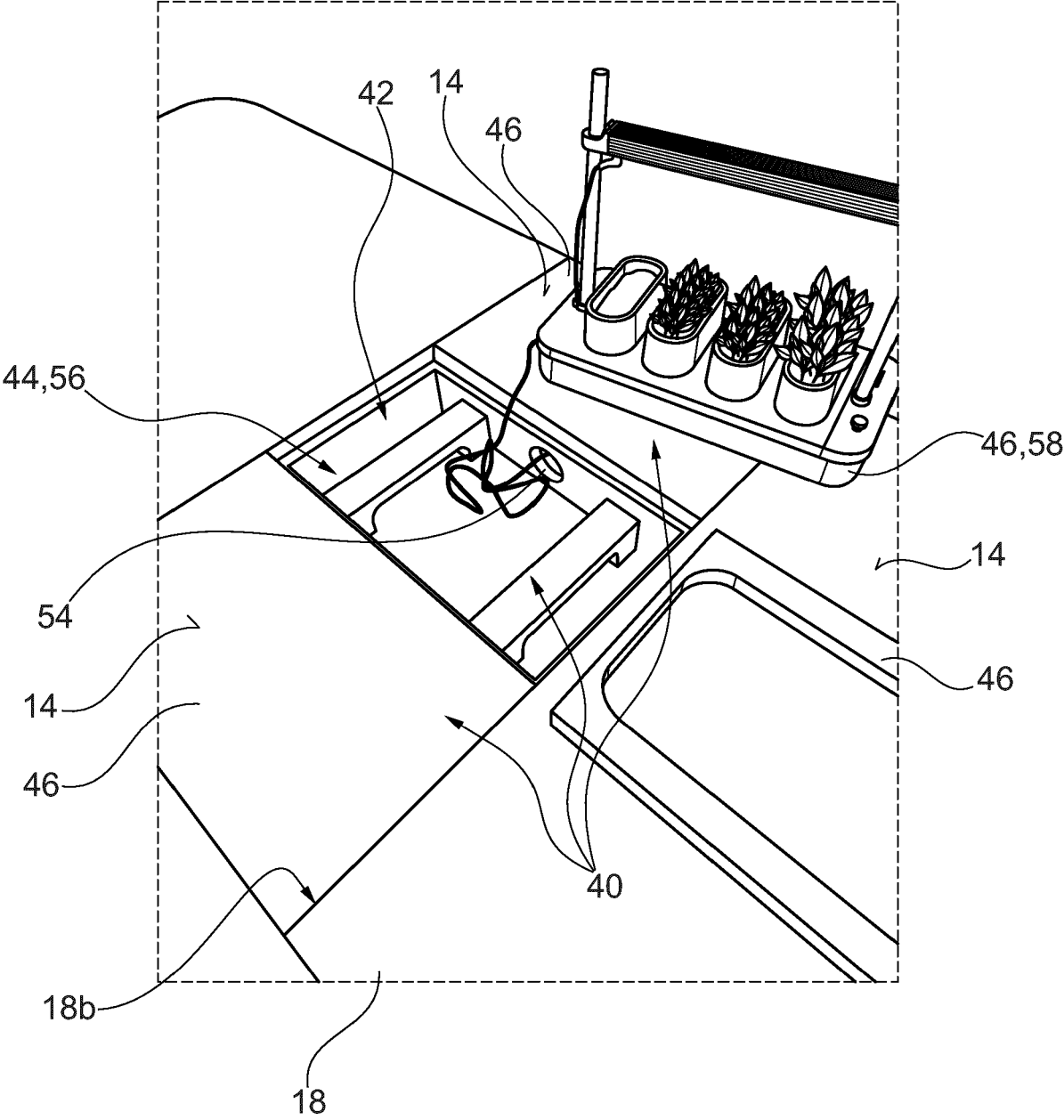


Fig. 7



EUROPEAN SEARCH REPORT

Application Number

EP 25 17 0657

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
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			TECHNICAL FIELDS SEARCHED (IPC)
			A47B
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
The Hague		8 September 2025	Jacquemin, Martin
CATEGORY OF CITED DOCUMENTS			
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ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 25 17 0657

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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
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08-09-2025

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