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(54) **CONVERTIBLE TABLE**

(57) The present invention comprises a support frame (1) and a supporting platform (2) with anchoring elements (3) in order to be able to removably couple the supporting platform (2) on the support frame (1) in two positions with different heights: a first position and a second position; wherein in each of the positions of the supporting platform (2), the support frame (1) rests on the floor in different areas. The convertible table is able to

be used in different positions: a first position usable as a coffee table with the possibility of being able to adjust it to a sofa or similar piece of furniture, and a second position usable as a work table or for eating while seated on a chair; wherein the change from one position to the other is performed without needing to use tools; and wherein in each of the positions the table is set on the floor in different supports.

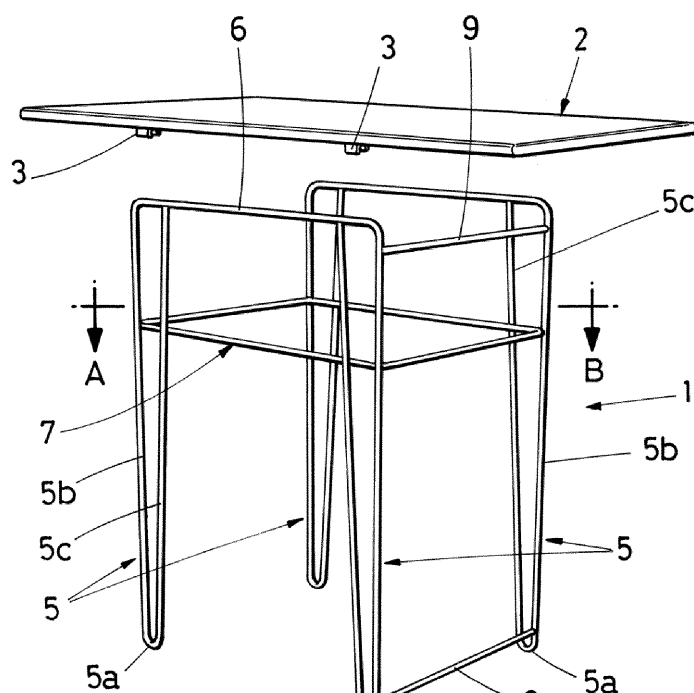


FIG.1

Description

Object of the invention

[0001] The present invention relates to a convertible table which enables it to be used in different positions, a first position usable as a coffee table with the possibility of being able to adjust it to a sofa or similar piece of furniture, and a second position with a greater height usable as a work table or for eating while seated in a chair; wherein the change from one position to the other is performed without needing to use tools; and wherein in each of the positions the table is set on the floor in different supports.

Technical problem to be solved and background of the invention

[0002] Nowadays, a multitude of tables are known, most of which have a single use, either as a work table, a dining table, a coffee table, etc.

[0003] Some of said tables comprise a structure with moving parts which can be placed in a folded position when not in use, occupying a reduced volume, and an unfolded position when said tables are going to be used.

[0004] Other tables are also known which include an articulated structure which enables a coffee table to be converted into a raised table for eating. Said articulated structure includes complex mechanisms which make it difficult to fold and unfold the table in order to go from one position to the other. Furthermore, these tables have a high cost.

Description of the invention

[0005] In order to achieve the objectives and prevent the drawbacks mentioned in the previous sections, the invention proposes a convertible table comprising a support frame and a supporting platform with anchoring elements to be able to removably couple the supporting platform on the support frame in two positions with different heights: first and second; wherein in each of the positions of the supporting platform, the support frame rests on the floor in different areas.

[0006] The support frame includes two pairs of parallel outer bars and two parallel bar segments contained in a first plane which is perpendicular to two second planes wherein the two pairs of outer bars are separately contained.

[0007] The anchoring elements, integral with the supporting platform, are selectively coupled in the two parallel bar segments or in one of the two pairs of parallel outer bars.

[0008] The support frame comprises a bar structure formed by four parallel modules formed by pairs of bars which include first ends formed by curved portions as supporting elements for the table on the floor when the supporting platform is positioned in the first position, and

second ends opposite from the first ends.

[0009] The second ends of the parallel modules are evenly joined to the two parallel bar segments, while each parallel module comprises the curved portion, the outer bar and an inner bar; wherein these two bars converge in the respective curved portion.

[0010] The support frame further comprises a frame joined to the outer and inner bars of the parallel modules, a first transverse bar joined at the ends thereof to two outer bars of two parallel modules, and a second transverse bar joined at the ends thereof to those same two outer bars of the two parallel modules.

[0011] The first transverse bar is close to the first ends of the parallel modules, while the second transverse bar is located near the second ends of the parallel modules.

[0012] Each of the anchoring elements has a U-shaped configuration and is formed by a crosspiece and two branches; wherein, the supporting platform being assembled, portions of the bar segments or portions of the two outer bars fit tightly and selectively into gaps delimited between the pairs of branches of the anchoring elements integral with the supporting platform.

[0013] Next, to help better understand this specification and as an integral part thereof, a series of figures is attached in which the object of the invention is depicted in an illustrative and non-limiting manner.

Brief description of the figures

[0014]

Figure 1 shows a perspective view of the convertible table, object of the invention. The table is placed in an elevated position for use for working or eating, as well as comprising a support frame and a supporting platform.

Figure 1a shows a cross-sectional view according to section A-B of figure 1.

Figure 2 shows a perspective view of the convertible table in a low position for use as a coffee table which is adjusted to the height of a sofa.

Figure 3 shows a perspective view of the supporting platform, wherein it highlights anchoring elements in order to be able to comfortably assemble and disassemble said platform on the support frame of the table in different positions.

Description of an exemplary embodiment of the invention

[0015] Considering the numbering adopted in the figures, the convertible table comprises a metallic support frame 1 and a supporting platform 2 configured to be removably coupled on the support frame 1 in at least two different positions by means of anchoring elements 3 integral with said support platform 2, such that in one of the positions the convertible table is used as a table for working or eating, while in the other position the convert-

ible table is used as a coffee table with the possibility of being able to adjust it in this case to a sofa 4, as shown in figure 2, wherein a part of the support frame 1 is positioned below the sofa 4 and another part above a seat of the sofa.

[0016] Thus, in both cases the supporting platform 2 is positioned in horizontal planes; wherein in the table for working or eating, the supporting platform 2 is placed in a higher position than when it is used as a coffee table.

[0017] The support frame 1 comprises a structure of bars formed by four parallel modules 5 formed by pairs of bars which include first ends wherein curved portions 5a are located as supporting elements for the table on the floor when it is used as a table for working or eating, and second ends opposite from the first ends.

[0018] The second ends of the parallel modules 5 are evenly joined by means of two parallel bar segments 6 configured to be able to couple the anchoring elements 3 when the table is used as a table for working or eating.

[0019] Thus, each bar segment 6 joins two parallel modules 5, while each pair of bars of each parallel module 5 comprises an outer bar 5b and an inner bar 5c which converge at the first end thereof in the respective curved portion 5a.

[0020] The support frame 1 further comprises a frame 7 joined to the outer and inner bars 5c of the parallel modules 5, a first transverse bar 8 joined at the ends thereof to two outer bars 5b of two parallel modules 5, and a second transverse bar 9 joined at the ends thereof to those same two outer bars 5b of the two parallel modules 5; wherein the first transverse bar 8 is close to the first ends of the parallel modules 5, while the second transverse bar 9 is located near the second ends of the parallel modules 5.

[0021] When the convertible table of the invention is used as a coffee table, the anchoring elements 3 are coupled on the two outer bars 5b to which the first transverse bar 8 and the second transverse bar 9 are joined, while the other two outer bars 5b are used to rest on the floor. Furthermore, in this case, a part of the two parallel modules 5 which have the outer bars 5b resting on the floor can be introduced under the sofa (figure 2), which enables a part of the supporting platform 2 to be positioned above the seat of the sofa 4 for greater comfort of the user.

[0022] Each of the anchoring elements 3 has a U-shaped configuration and is formed by a crosspiece 3a and two branches 3b; wherein, the supporting platform 2 being assembled on the support frame 1, portions of the bar segments 6 (table for eating or working) or portions of the two outer bars 5b (coffee table), fit tightly into gaps 10 delimited between the pairs of branches 3b of the anchoring elements 3 integral with the supporting platform 2.

Claims

1. A convertible table, characterised in that:

- 5 - it comprises a support frame (1) and a supporting platform (2) that comprises anchoring elements (3) configured to removably couple the supporting platform (2) on the support frame (1) in two positions with different heights: a first position and a second position; wherein each of the positions of the supporting platform (2), the support frame (1) rests on the floor in different areas;
- 10 - the support frame (1) comprises two pairs of parallel outer bars (5b) and two parallel bar segments (6) contained in a first plane which is perpendicular to two second planes wherein the two pairs of outer bars (5b) are separately contained;

20 wherein the anchoring elements (3), integral with the supporting platform (2), are configured to be selectively coupled in the two parallel bar segments (6) or in one of the two pairs of parallel outer bars (5b).

25 2. The convertible table, according to claim 1, wherein the support frame (1) comprises a bar structure that comprises four parallel modules (5) formed by pairs of bars which include first ends formed by curved portions (5a) as supporting elements for the table on the floor when the supporting platform (2) is positioned in the first position, and second ends opposite from the first ends; wherein the second ends of the parallel modules (5) are evenly joined to the two parallel bar segments (6); and wherein each parallel module (5) comprises the curved portion (5a), the outer bar (5b) and an inner bar (5c); wherein these two bars (5b, 5c) converge in the respective curved portion (5a).

30 3. The convertible table, according to claim 1, wherein the support frame (1) further comprises a frame (7) joined to the outer (5b) and inner bars (5c) of the parallel modules (5), a first transverse bar (8) joined at the ends thereof to two outer bars (5b) of two parallel modules (5), and a second transverse bar (9) joined at the ends thereof to those same two outer bars (5b) of the two parallel modules (5); wherein the first transverse bar (8) is close to the first ends of the parallel modules (5), while the second transverse bar (9) is located near the second ends of the parallel modules (5).

45 4. The convertible table, according to any one of the preceding claims, wherein each of the anchoring elements (3) has a U-shaped configuration and is formed by a crosspiece (3a) and two branches (3b); wherein, the supporting platform (2) being assembled, portions of the bar segments (6) or portions of

the two outer bars (5b) fit selectively and tightly into gaps (10) delimited between the pairs of branches (3b) of the anchoring elements (3) integral with the supporting platform (2).

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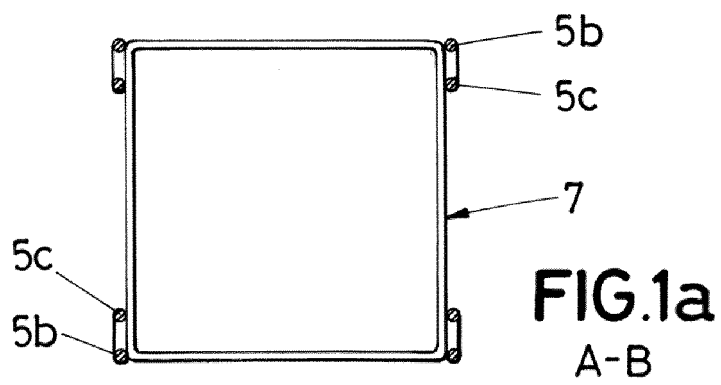
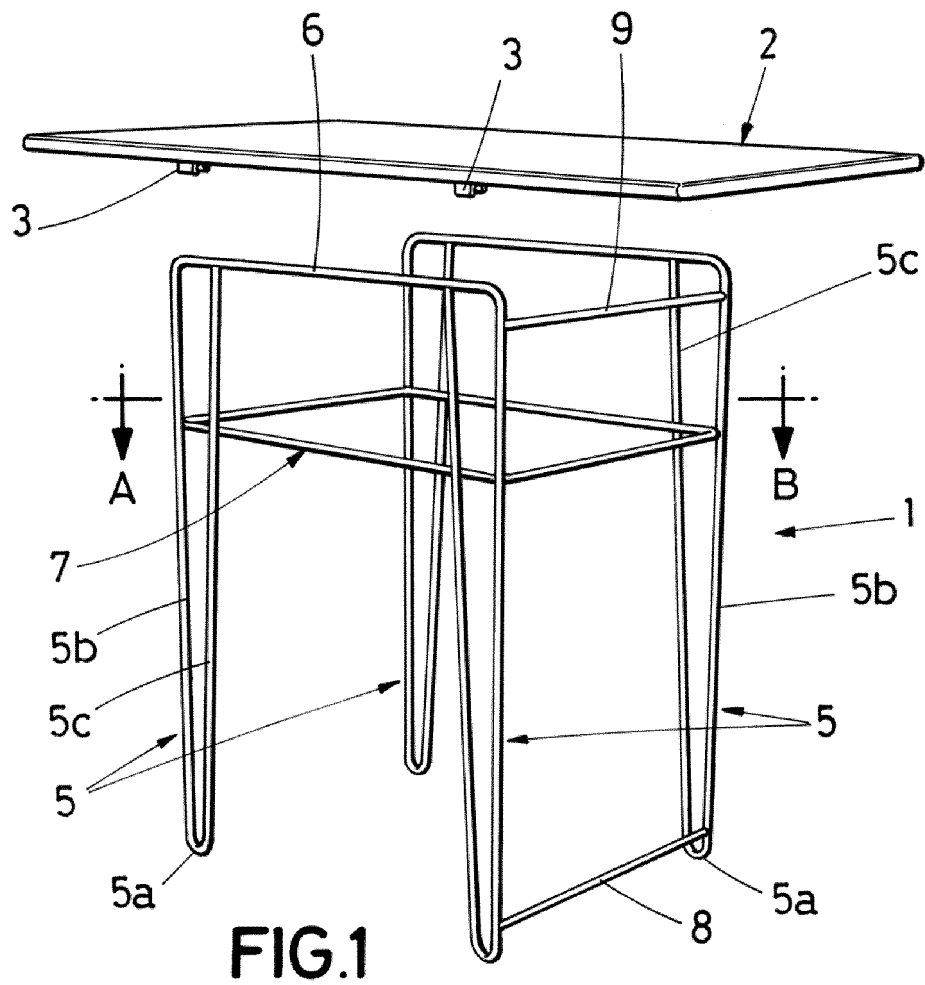
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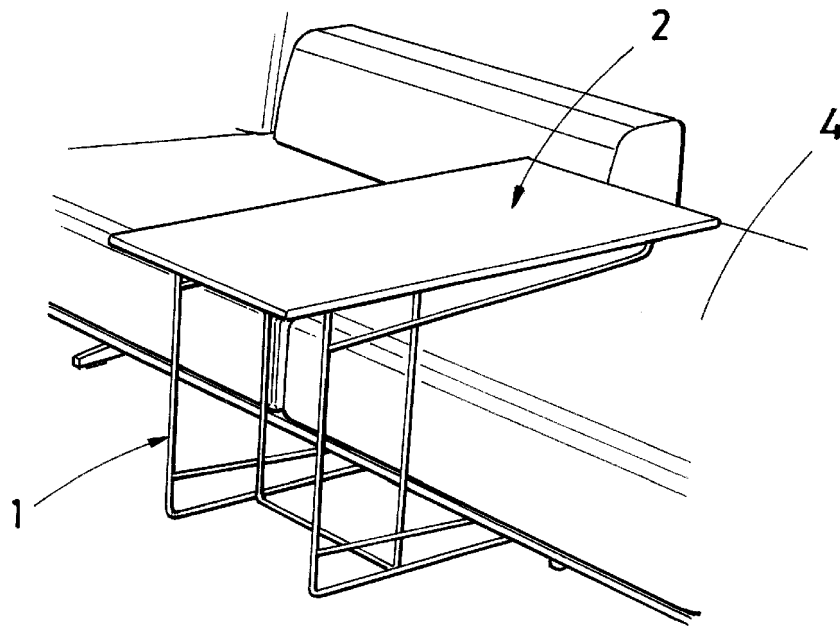


FIG. 2

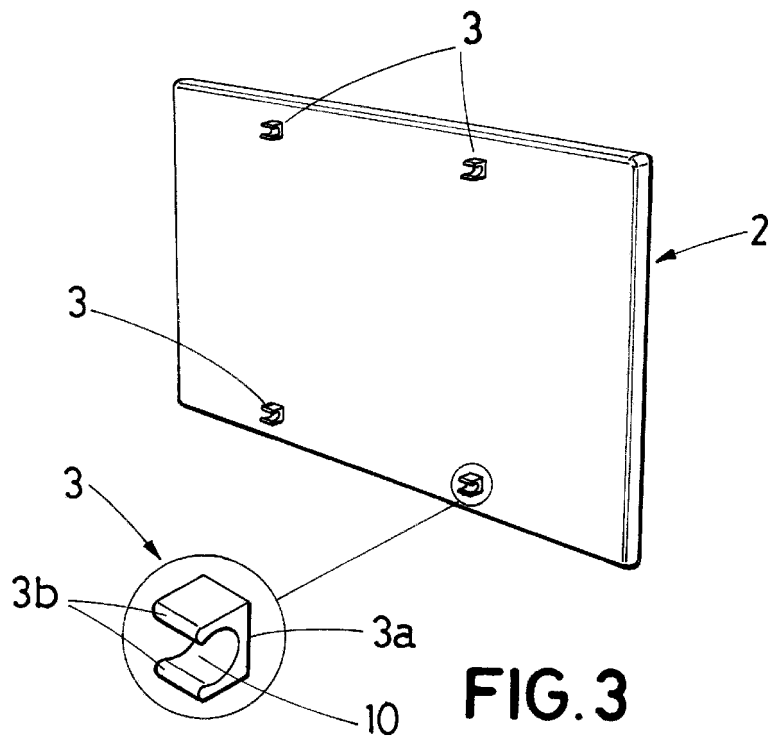


FIG. 3



EUROPEAN SEARCH REPORT

Application Number
EP 21 17 9232

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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	US 3 361 088 A (HODGKIN NEAL W) 2 January 1968 (1968-01-02) * column 2, line 45 - line 57 * * figures 1-4 *	1,4	INV. A47B9/00
A	-----	2,3	ADD. A47B13/00 A47B13/06 A47B85/06
X	Esf Wholesale Furniture: "1", 26 October 2020 (2020-10-26), XP055866828, Retrieved from the Internet: URL:https://web.archive.org/web/20201026193144/https://www.esfwholesalefurniture.com/catalog/Brands/Fama-Modern-Tables-Spain/Fama-Coffee-Tables/ [retrieved on 2021-11-29] * page 13 *	1-4	
			TECHNICAL FIELDS SEARCHED (IPC)
			A47B
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 29 November 2021	Examiner Bitton, Alexandre
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	

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EPO FORM 1503 03.82 (P04C01)

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 3361088	A	02-01-1968	NONE

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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82