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(54) **Shelf arrangement for a household appliance and in particular for a wine cooler**

Regalanordnung für ein Haushaltsgerät, insbesondere für einen Weinkühler

Agencement d'étagère pour appareil domestique et en particulier pour cave à vins

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Description

Technical Field of the Present Invention

[0001] The present invention relates to an electrical household appliance and in particular to a wine cooler having a specially adapted shelf configuration.

Prior Art/ Background of the Present Invention

[0002] The present invention relates to an electrical household appliance and more specifically to a wine cooler. Wine coolers conventionally have a plurality of shelves for disposing wine bottles in an order. Such wine coolers are known and practiced in the art for a long period of time.

[0003] The present invention on the other hand, provides a wine cooler having wooden shelves instead of linear wire type shelves. Said shelves are equipped with more robust lateral supports.

[0004] Further, wooden shelves according to the present invention are secured to the frontal and rear profiles in a more reliable manner by means of additional fastening elements where wires in older designs were attached without such elements.

[0005] An additional structural advantage of the present arrangement lies in that frontal and rear profiles of a shelf are fastened with lateral support members in a mechanically improved manner. Document EP 1 840 491 A2 discloses a household appliance with a shelf arrangement according to the preamble of claim 1.

[0006] Another advantage of the present invention lies in that a more pleasing visual effect is provided by concealing lower surfaces of said lateral support members.

Objects of the Present Invention

[0007] The most prominent object of the present invention is to provide a wine cooler having wooden shelves instead of linear wire type shelves.

[0008] Another object of the present invention is to provide a wine cooler with shelves having more robust lateral supports.

[0009] Another object of the present invention is to provide a wine cooler in which shelves thereof are secured to the frontal and rear profiles in a more reliable manner by means of additional fastening elements.

[0010] Another object of the present invention is to provide a wine cooler in which frontal and rear profiles are fastened with lateral support members in a mechanically improved manner.

[0011] Another object of the present invention is to provide a wine cooler in which a more pleasing visual effect is provided by concealing lower surfaces of the lateral support members.

Summary of the Invention

[0012] The present invention provides a wine cooler shelf arrangement having a plurality of linearly extending parallel shelf members delimited by frontal and rear aluminum profiles. Said shelf arrangement is also supported by lateral support members, which extend parallel to said shelf members at both sides thereof. Said lateral support members are mechanically connected to the frontal and rear profiles. Said lateral support members comprise an emptied rear slit on the underside of said members for receiving a stopping claw, a guiding claw for engaging with a support rail displaceably carrying said shelf arrangement and a front opening for receiving respective claws on said support rail.

Brief Explanation of the Figures

[0013] The figures whose brief explanations are herewith provided are solely intended for providing a better understanding of the present invention and are as such not intended to define the scope of protection or the context in which said scope is interpreted in the absence of the description. To this end, Fig. 1 demonstrates a perspective view of the shelf arrangement according to the present invention.

[0014] Fig. 2 demonstrates a reversed perspective view of the shelf arrangement according to the present invention.

[0015] Fig. 3 demonstrates another reversed perspective view of the shelf arrangement with tee mechanical connection elements according to the present invention.

[0016] Fig. 4 demonstrates a further reversed perspective view of the shelf arrangement with the concealing element according to the present invention.

Detailed Description of the Invention

[0017] The present invention proposes an electrical household appliance and namely a wine cooler. The wine cooler has a structurally improved shelf arrangement as explained below in detail.

[0018] The present invention provides a wine cooler shelf arrangement having a plurality of linearly extending parallel shelf members (15) delimited by frontal and rear aluminum profiles (11, 12). Said linearly extending parallel shelf members (15) are preferably made out of wood material.

[0019] Said shelf arrangement is also supported by lateral support members (13, 14), which extend parallel to said shelf members (15) at both sides thereof. Said lateral support members (13, 14) are mechanically connected to the frontal and rear profiles (11, 12). Fig. 3 demonstrates rivets (19) for effecting fastening of said frontal and rear profiles (11, 12) to the support members (13, 14). Further, shelf members (15) neighboring said lateral support members (13, 14) are laterally screwed (screws, 20) thereto. Said shelf members (15) are screwed to said

frontal and rear profiles (11, 12) by respective screws (21).

[0020] Said lateral support members (13, 14) comprise an emptied rear slit (16) on the underside of said members (13, 14) for receiving a stopping claw, a guiding claw (17) for engaging with a support rail displaceably carrying said shelf arrangement and a front opening (18) for receiving respective claws on said support rail.

[0021] Fig. 4 demonstrates the front part concealing element (22) according to the present invention. Said element (22) has a rectangular body covering a front part of said shelf arrangement such that said front opening (18) is concealed. Said concealing element (22) is fastened by screws (23) to said shelf members (15) neighboring said lateral support members (13, 14). In addition, said front aluminum profile (24) is also transversally lengthened to provide additional concealing effect.

[0022] In a nutshell, the present invention proposes a household appliance and in particular a wine cooler shelf arrangement having a plurality of linearly extending parallel shelf members (15) delimited by frontal and rear aluminum profiles (11, 12) and supported by lateral support members (13, 14) extending parallel to said shelf members (15) at both sides thereof. Said lateral support members (13, 14) comprise an emptied rear slit (16) on the underside of said members (13, 14) for receiving a stopping claw, a guiding claw (17) for engaging with a support rail displaceably carrying said shelf arrangement and a front opening (18) for receiving respective claws on said support rail.

Claims

1. A household appliance and in particular a wine cooler shelf arrangement having a plurality of linearly extending parallel shelf members (15) delimited by frontal and rear aluminum profiles (11, 12) and supported by lateral support members (13, 14) extending parallel to said shelf members (15) at both sides thereof **characterized in that** said lateral support members (13, 14) comprise an emptied rear slit (16) on the underside of said members (13, 14) for receiving a stopping claw, a guiding claw (17) for engaging with a support rail displaceably carrying said shelf arrangement and a front opening (18) for receiving respective claws on said support rail.
2. A household appliance as set forth in Claim 1 wherein said linearly extending parallel shelf members (15) are preferably made out of wood material.
3. A household appliance as set forth in Claim 1 wherein said lateral support members (13, 14) are mechanically connected to the frontal and rear profiles (11, 12) by means of rivets (19).
4. A household appliance as set forth in Claim 1 or 2

wherein said shelf members (15) neighboring said lateral support members (13, 14) are laterally screwed by screws (20).

5. A household appliance as set forth in Claim 4 wherein said shelf arrangement comprises a concealing element (22) with a rectangular body covering a front part of said shelf arrangement such that said front opening (18) is concealed.
6. A household appliance as set forth in Claim 5 wherein said concealing element (22) is fastened by screws (23) to said shelf members (15) neighboring said lateral support members (13, 14).
7. A household appliance as set forth in Claim 6 wherein said front aluminum profile (24) is transversally lengthened.

Patentansprüche

1. Haushaltsgerät, insbesondere Weinkühler-Regalanordnung, die eine Vielzahl von sich geradlinig erstreckenden parallelen Regalelementen (15) aufweist, die durch ein vorderes und ein hinteres Aluminiumprofil (11, 12) begrenzt und durch seitliche Stützelemente (13, 14), die sich parallel zu den Regalelementen (15) beiderseits derselben erstrecken, gestützt werden, **dadurch gekennzeichnet, dass** diese seitlichen Stützelemente (13, 14) einen freigelegten hinteren Schlitz (16) an der Unterseite dieser Elemente (13, 14) zur Aufnahme einer Anschlagklaue, eine Führungsklaue (17) zum Eingriff mit einer Stützschiene, welche die Regalanordnung verschiebbar trägt, und eine vordere Öffnung (18) zur Aufnahme jeweiliger Klauen auf dieser Stützschiene umfassen.
2. Haushaltsgerät nach Anspruch 1, wobei die sich geradlinig erstreckenden parallelen Regalelemente (15) vorzugsweise aus Holzmaterial hergestellt sind.
3. Haushaltsgerät nach Anspruch 1, wobei die seitlichen Stützelemente (13, 14) mithilfe von Nieten (19) mechanisch mit dem vorderen und dem hinteren Profil (11, 12) verbunden sind.
4. Haushaltsgerät nach Anspruch 1 oder 2, wobei die Regalelemente (15), die den seitlichen Stützelementen (13, 14) benachbart sind, seitlich durch Schrauben (20) verschraubt sind.
5. Haushaltsgerät nach Anspruch 4, wobei die Regalanordnung ein verbergendes Element (22) mit einem rechteckigen Körper umfasst, das einen vorderen Teil der Regalanordnung abdeckt, sodass die vordere Öffnung (18) verborgen ist.

6. Haushaltsgesät nach Anspruch 5, wobei das verbergende Element (22) durch Schrauben (23) an den Regalelementen (15) befestigt ist, die den seitlichen Stützelementen (13, 14) benachbart sind.

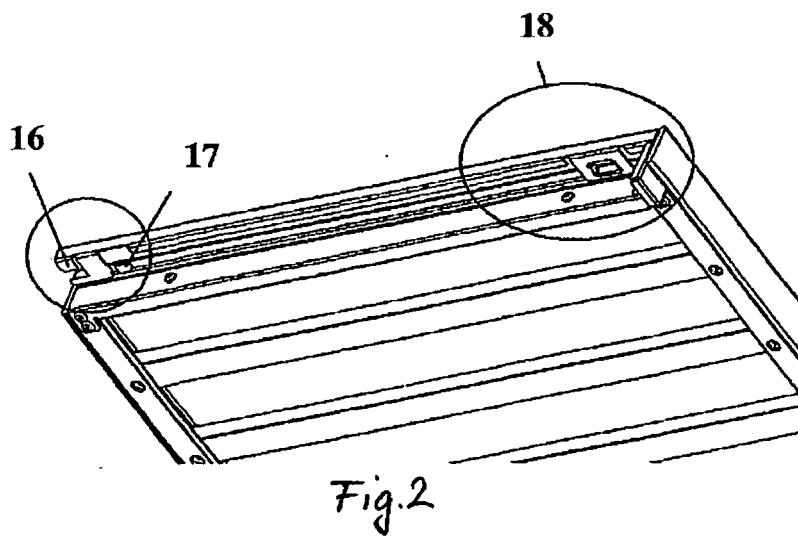
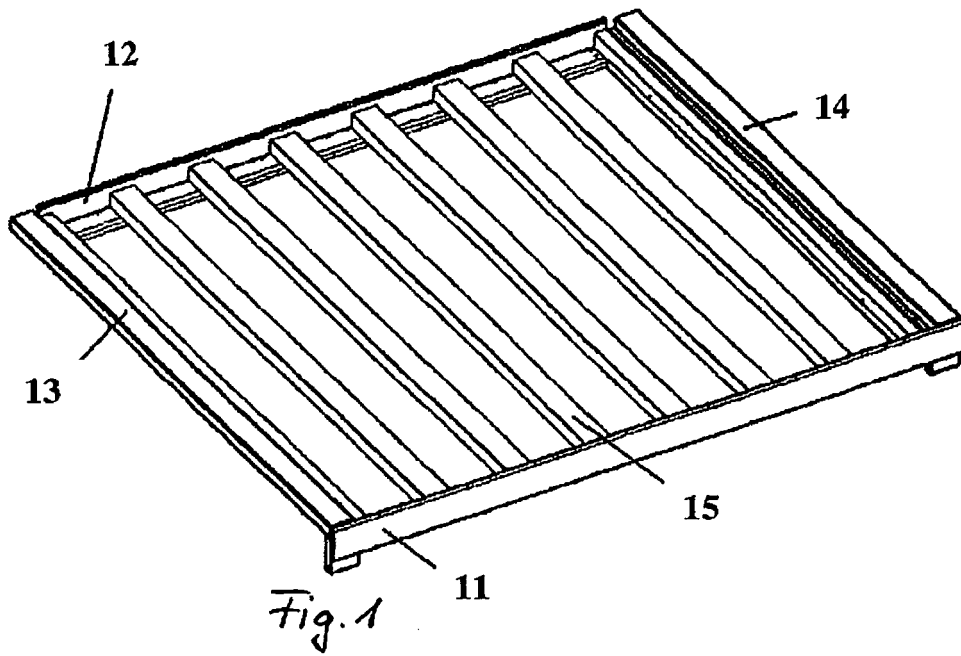
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7. Haushaltsgesät nach Anspruch 6, wobei das vordere Aluminiumprofil (24) in Querrichtung verlängert ist.

Revendications

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1. Appareil domestique et en particulier agencement d'étagère de cave à vin réfrigérée comportant une pluralité d'éléments d'étagère parallèles s'étendant linéairement (15) délimités par des profils avant et arrière en aluminium (11, 12) et supportés par des éléments de support latéraux (13, 14) s'étendant parallèlement auxdits éléments d'étagère (15) des deux côtés de ceux-ci, **caractérisé en ce que** lesdits éléments de support latéraux (13, 14) comprennent une fente arrière évidée (16) sur la face inférieure desdits éléments (13, 14) pour recevoir un doigt d'arrêt, un doigt de guidage (17) pour venir en prise avec un rail de support portant ledit agencement d'étagère de manière déplaçable et une ouverture avant (18) pour recevoir les doigts respectifs sur ledit rail de support.
2. Appareil domestique selon la revendication 1, dans lequel lesdits éléments d'étagère parallèles s'étendant linéairement (15) sont de préférence réalisés dans un matériau en bois.
3. Appareil domestique selon la revendication 1, dans lequel lesdits éléments de support latéraux (13, 14) sont reliés mécaniquement aux profils avant et arrière (11, 12) au moyen de rivets (19).
4. Appareil domestique selon la revendication 1 ou 2, dans lequel lesdits éléments d'étagère (15) avoisinant lesdits éléments de support latéraux (13, 14) sont vissés latéralement par des vis (20).
5. Appareil domestique selon la revendication 4, dans lequel ledit agencement d'étagère comprend un élément de dissimulation (22) avec un corps rectangulaire couvrant une partie avant dudit agencement d'étagère de telle sorte que ladite ouverture avant (18) est dissimulée.
6. Appareil domestique selon la revendication 5, dans lequel ledit élément de dissimulation (22) est serré par des vis (23) auxdits éléments d'étagère (15) avoisinant lesdits éléments de support latéraux (13, 14).
7. Appareil domestique selon la revendication 6, dans lequel ledit profil avant en aluminium (24) est allongé transversalement.



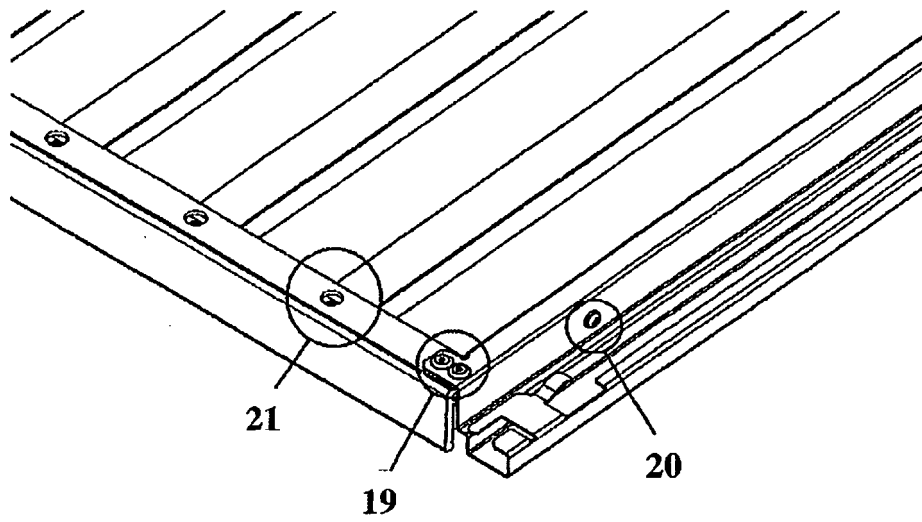


Fig. 3

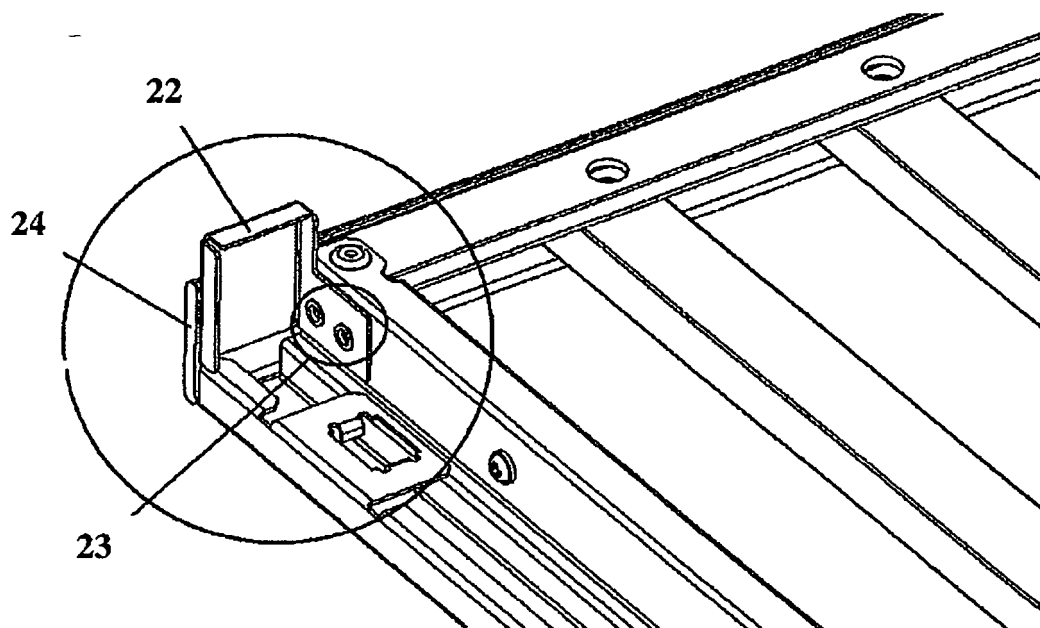


Fig. 4

REFERENCES CITED IN THE DESCRIPTION

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