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(54) **Extendable table**

Ausziehtisch

Table extensible

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## Description

[0001] The sector of the technique for this invention is that of extending tables and particularly the ones which comprise a moving upper plane which gives rise to an arrangement with a different plane as a continuation of this.

[0002] Statement of the prior state of the art.

[0003] There is utility model no. ES 1017370-Y by this same applicant, for an arrangement for the folding/unfolding of the upper plane of a table, formed of a moving upper plane which allows the outer end of the previously hidden plane to be lifted, by means of a wedge profile runner.

[0004] Also ES 1025943-Y for an arrangement for prolonging the opaque plane of a table, this one fixed, based on the used of a moving runner which can be raised after it has reached one end of its run and in said position it can be laid out as a continuation of and at the same height the main unmoving one.

[0005] The aim of this invention is to have a layout of extending tables which is formed of a moving upper plane, only movable in one direction as far as certain stops, by means of pairs of rollers inserted in the frame of the plane, and a lower plane that is also mobile, fitted with a pair of rollers, that can reach the upper plane, one end by manual movement and the other end by movement of the roller by communication between the lower and upper guides.

[0006] In order to make the following explanation clearer a sheet of drawings is enclosed which represents the essence of this invention in two figures.

Figure 1 shows a view of the table in a perspective-diagram.

Figure 2 shows a partial view of the frame in profile.

[0007] In said figure 1 represents the lateral structure, 2 the upper plane moveable to one side, 3 the lower plane of the same length as the side structure, and 4 the upper guide, 5 the lower guide, 6 being the roller to support the lower plane when this is installed on the upper guide, with 7 being the central roller of the upper plane, 8 the end roller of the upper plane, 9 the roller of the lower plane, 10 the stop of the lower channel, 11 the lower sliding roller, 12 the channel or portion between the two guides and 13 the stop of the lower guides lined up with channel 12, located at roughly 1/3 of the way along its length.

[0008] The table we are now dealing with functions in the following way: when folded, both planes 2 and 3, which have substantially the same length as the lateral structure, are placed on top of the other. The upper one can be moved along guide 4, up to two extreme positions: moved to one end or moved to the other end. It has two pairs of rollers. In each one of both positions, rollers 7 and 8 constitute the stops of said movement, with the

guide having at its end a limitation for this movement as a stop. The lower plane is fitted with one sole pair of rollers fitted at roughly 1/7 of the way along its length. The lower channel will not allow the end not fitted with rollers on the lower plane 3 to drop. In its folded position, the lower plane rests on a sliding roller 11. The unfolding of the table takes place in the following way. First of all the upper plane has to move to its stop. Then the lower one moves in the same direction, this fact making it stick out on the other side, far enough to determine its moving over the roller 6 which act as a support in this position. Traction on this will determine the coincidence of the roller 9 of the lower plane on the stop 13 lined up with channel 12, which by tilting has to rise up to the upper plane, slight pressure being enough for it to fit stably as a continuation of the upper plane previously moved, giving the configuration of a large flat table with the whole plane thus doubled on the same. Level.

[0009] This can be used in industrial applications in the sphere of the furniture industry.

## Claims

1. Extendable table, having a structure made up of the sides (1) of the table with upper and lower guides along which at least one plane can move, **characterized in that**

the table has two planes which in the retracted position are disposed one over the other, both being adapted to slide along the guides;

the table comprising a channel portion (12) between said guides (4,5);

**in that** the upper plane (2) comprises two pairs of rollers (7, 8) for horizontally moving along the upper guide (4) said movement being possible only to one side of the table, said pairs of rollers being laid out approximately at the centre and at one end of said upper plane, respectively, and functioning as stops for limiting displacement of said upper plane (4), said end being disposed adjacent the lower plane in the extended position;

**in that** the lower plane (3) comprises a single pair of rollers (9) located at a distance approximately 1/7 from an end of said lower plane which in the extended position is adjacent the upper plane, said lower plane being moved by said rollers along a lower guide (5) and being lifted up to the level of the upper guide (4) along said channel (12), the latter being arranged out as continuation of a stop (13) for the movement of the lower plane (3);

said lower plane being adapted to be lifted by hand by its other end after moving the single pair of roller (9) to the end of the lower guide (5), with a fixed roller (6) being provided to support the lower plane in the upper position.

2. Extendable table, according to claim 1, **character-**

ized in that the side structures (1) have stops or limits for the movement of the lower plane laid out at the end (10) of the lower guide (5) and at the central part of same at a distance approximately 1/3 along its length.

sind für die Bewegung der unteren Ebene, die sich am Ende 10 der unteren Führung (5) und in deren Mitte, ca. ein Drittel der Länge, befindet.

### Patentansprüche

1. Ausziehtisch, dessen Seitenteile (1) mit Ober- und Unterführungen versehen sind, an denen wenigstens eines der Seitenteile beweglich ist, durch folgendes **gekennzeichnet**:

Der Tisch hat zwei Ebenen, die in eingezogener Position übereinander liegen und die beide so ausgeführt sind, dass sie entlang den Führungen bewegt werden können;

zwischen den genannten Führungen (4, 5) befindet sich ein als Kanal ausgebildetes Stück (12); die obere Ebene (2) ist mit zwei Radpaaren (7, 8) ausgestattet für die horizontale Bewegung auf der oberen Führung (4), wobei diese Bewegung nur zu einer Seite des Tisches möglich ist, während die genannten Radpaare ungefähr im Zentrum bzw. an einem Ende der genannten oberen Ebene angeordnet sind. Sie dienen als Anschlag zur Begrenzung der Verschiebung im Zentrum und an einem Ende der genannten oberen Ebene (4). Bei ausgezogener Position ist das Ende an die untere Ebene anliegend angeordnet;

die untere Ebene (3) ist mit nur einem Radpaar (9) ausgerüstet, das in einer Entfernung von ca. einem Siebtel von einem Ende der genannten unteren Ebene angebracht ist, die in ausgezogener Position anliegend an die obere Ebene angeordnet ist; die genannte untere Ebene wird durch die genannten Räder auf der unteren Führung bewegt und wird über die Länge des genannten Kanals (12) auf die Höhe der oberen Führung (4) angehoben. Dieser ist als Fortsetzung eines Anschlags (13) ausgeführt zur Bewegung der unteren Ebene (3);

die genannte untere Ebene ist so ausgeführt, dass sie an ihrem anderen Ende per Hand angehoben werden kann, nachdem das Radpaar (9) zum Ende der unteren Führung (5) hin bewegt wurde, und zwar mithilfe eines feststehenden Rades (6), das die untere Ebene in ihrer angehobenen Position trägt.

2. Ausziehtisch gemäss dem ersten Anspruch, **dadurch gekennzeichnet, dass** die Seitenteile (1) mit Anschlägen bzw. Begrenzungen ausgestattet

### Revendications

1. Table extensible, construite avec les côtés (1) de la table avec des glissières, supérieure et inférieure, au long desquelles au moins l'un des côtés est mobile, qui se **caractérise par le fait que**:

La table possède deux plans, qui, sur leur position rétractée, sont disposés l'un sur l'autre, les deux étant adaptés pour se déplacer au long des glissières ;

La table comprend une portion en canal (12) entre les dites glissières (4, 5) ; le plan supérieur (2) comprend deux paires de roulettes (7, 8) permettant le mouvement horizontal tout au long de la glissière supérieure (4), le dit mouvement étant uniquement possible vers un côté de la table, les dites paires de roulettes étant disposées à peu près sur le centre et à une extrémité du dit plan supérieur (4), la dite extrémité étant disposée de manière adjacente par rapport au plan inférieur sur la position déployée ;

Le plan inférieur (3) comprend une seule paire de roulettes (9) situées à une distance d'environ un septième d'une extrémité du dit plan inférieur, qui sur la position déployée est adjacent au plan supérieur, le dit plan inférieur étant déplacé par les dites roulettes tout au long d'une glissière inférieure et étant soulevé au niveau de la glissière supérieure (4) au long du dit canal (12), ce dernier étant disposé comme continuation d'un butoir (13) pour le mouvement du plan inférieur (3) ;

Le dit plan inférieur étant adapté à être soulevé à la main par son autre extrémité après avoir déplacé la paire de roulettes (9) jusqu'à la fin de la glissière inférieure (5), avec une roulette fixe (6) étant munie pour supporter le plan inférieur sur sa position surélevée.

2. Table extensible, conformément à la première revendication, qui se **caractérise par le fait que** les structures latérales (1) possèdent des butoirs ou des limiteurs de fin de course pour le mouvement du plan inférieur mis sur l'extrémité (10) de la glissière inférieure (5) et sur la partie centrale de celui-ci, environ à un tiers de sa longueur.

Fig. 1

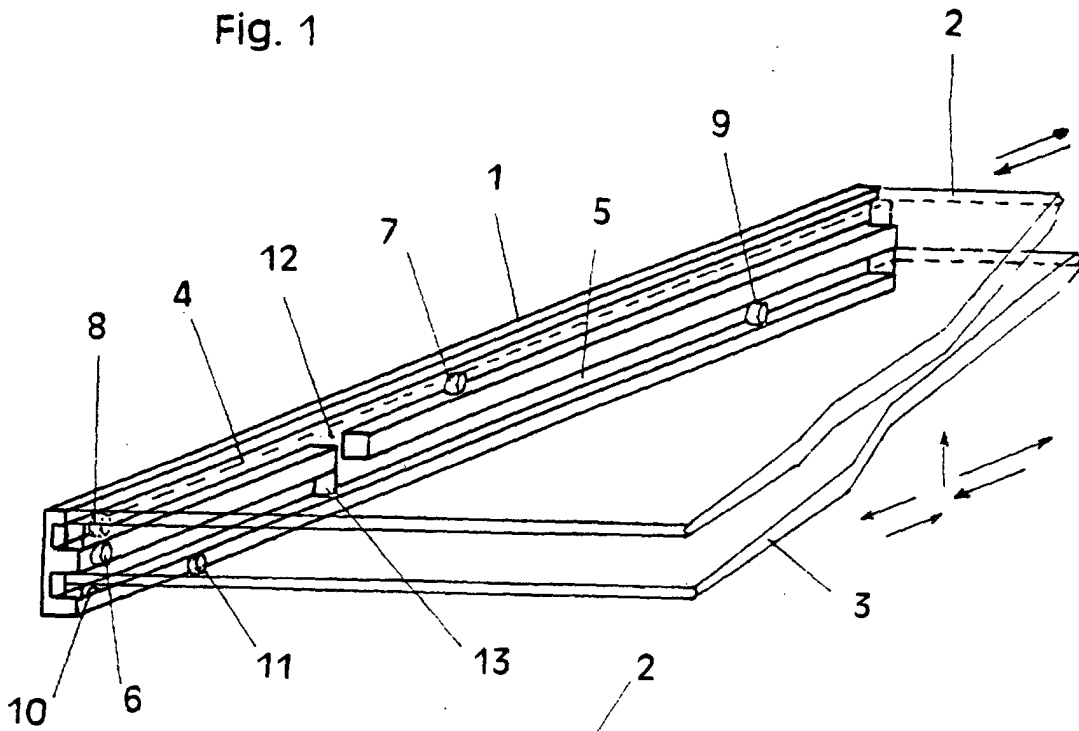


Fig. 2

