July 28, 1925.

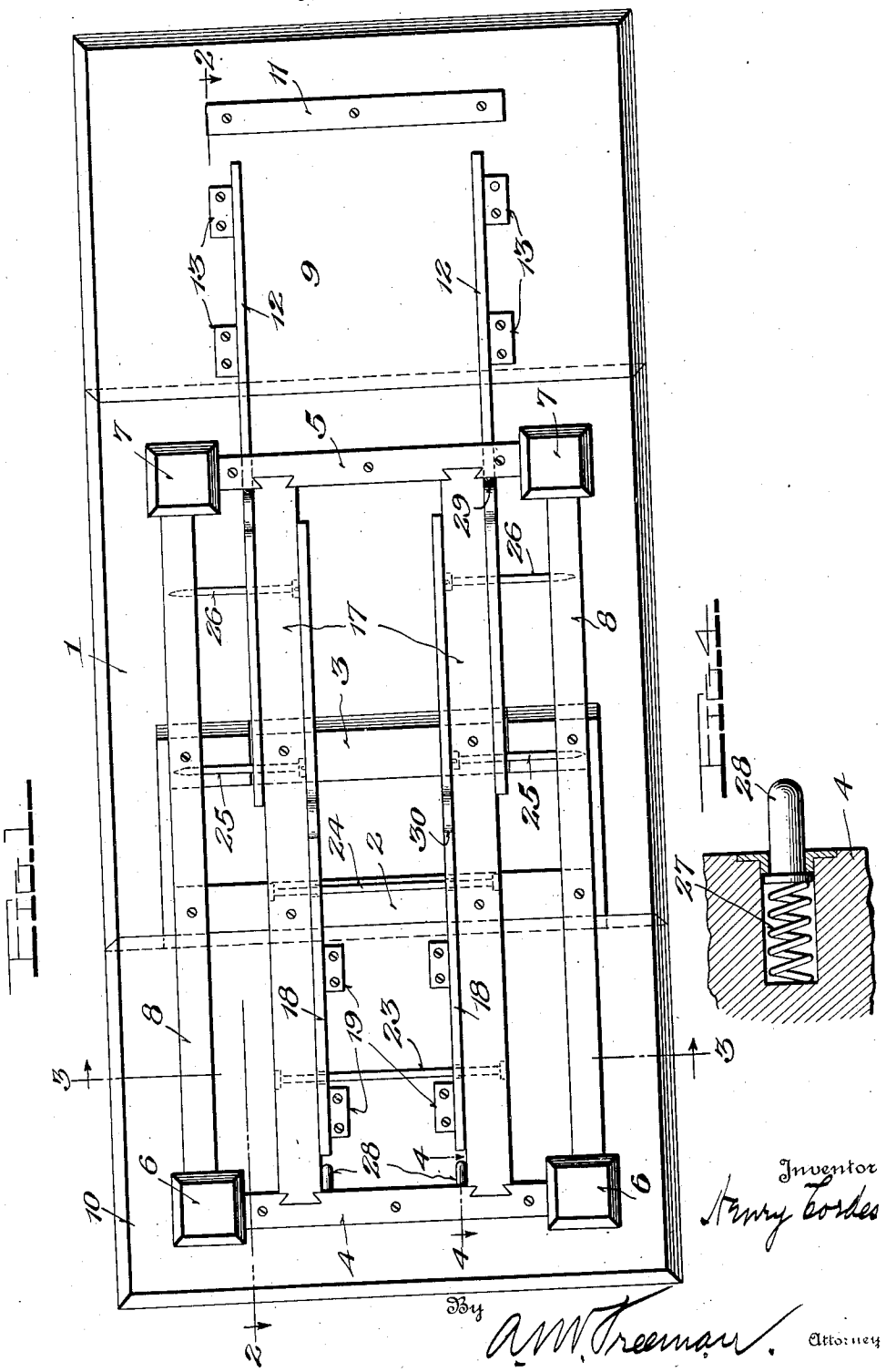
1,547,301

H. CORDES

EXTENSION TABLE

Filed March 13, 1924

2 Sheets-Sheet 1



Inventor
Henry Cordes

By A. W. Freeman. Attorney

July 28, 1925.

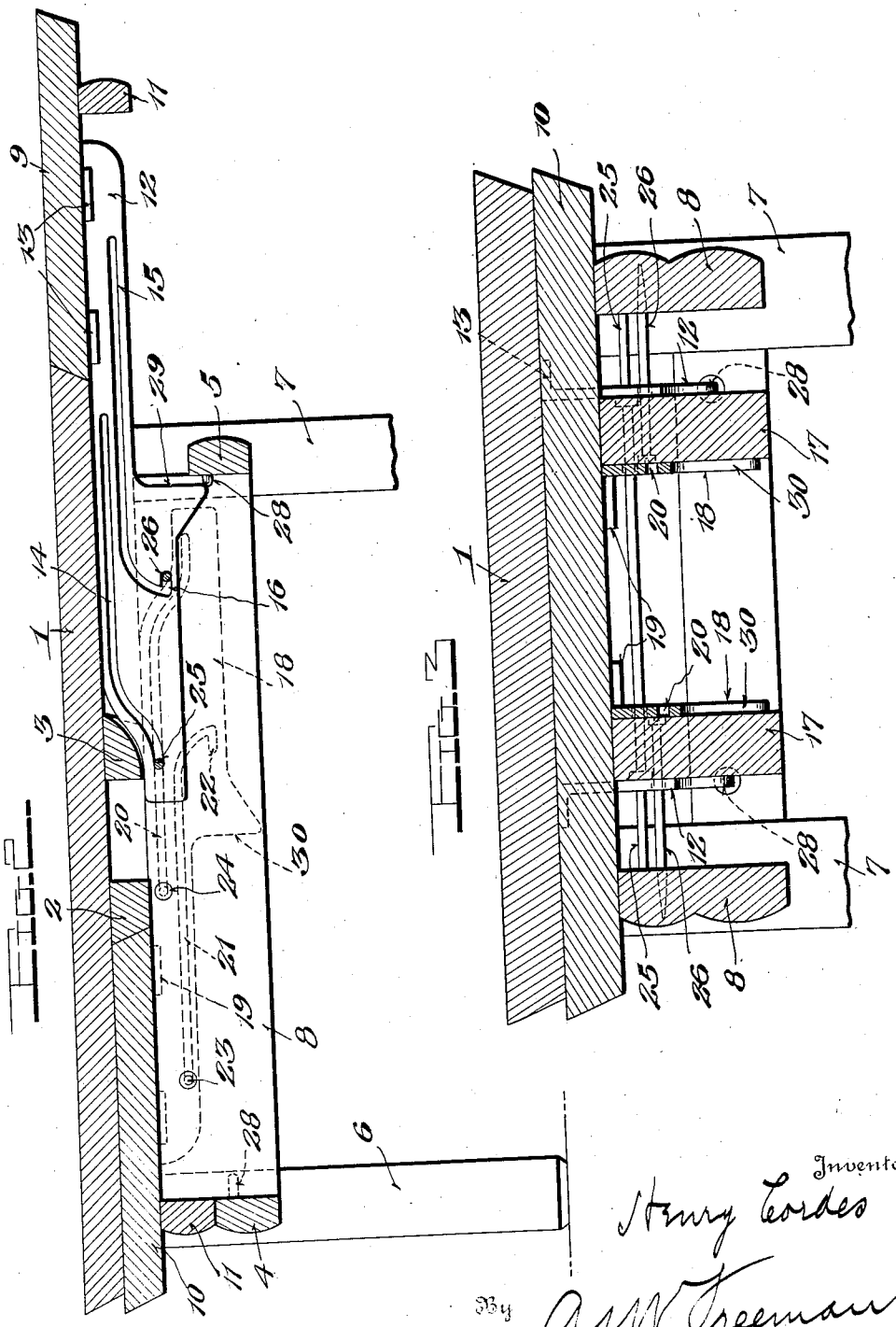
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H. CORDES

EXTENSION TABLE

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2 Sheets-Sheet 2



Inventor
Henry Cordes
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Patented July 28, 1925. 1,547,301

UNITED STATES PATENT OFFICE.

HENRY CORDES, OF SIOUX FALLS, SOUTH DAKOTA.

EXTENSION TABLE.

Application filed March 13, 1924. Serial No. 699,004.

To all whom it may concern:

Be it known that I, HENRY CORDES, citizen of Prussia, Germany, residing at Sioux Falls, in the county of Minnehaha and State of South Dakota, have invented certain new and useful Improvements in Extension Tables, of which the following is a specification.

This invention relates to certain new and useful improvements in extension tables, and the primary object thereof is to provide automatic means for latching the extensions in extended position.

A further object of the invention, is to provide improved means for slidably mounting the extensions so as to permit same to be easily and quickly moved into and out of extended position.

The invention still further aims to provide means for attaining the above objects, of simple, compact and economical construction and reliable in operation.

The invention has still further and other objects, which will be later set forth and manifested in the course of the following description.

In the drawings:

Figure 1, is a bottom plan view of the invention, one of the leaves being in extended position;

Figure 2, is a section on line 2—2 of Figure 1;

Figure 3, is a section on line 3—3 of Figure 1;

Figure 4, is a section on line 4—4 of Figure 1.

In proceeding in accordance with the present invention, a central stationary or fixed top member 1 is employed, the ends of which are preferably bevelled downwardly and inwardly. A pair of spaced cross bars 2 and 3 are secured to the under face of member 1 at the center thereof. End rails 4 and 5 are secured at their ends to the respective legs 6 and 7, at points spaced below the member 1, while side rails 8 are also connected at their ends to the legs at points spaced below the member 1.

The extensions or leaves 9 and 10 are provided with end rails 11, which, when the leaves are in contracted position. seat on the end rails 4, the inner ends of the leaves being beveled to engage the beveled ends of the member 1, when the leaves are extended.

The leaf 9 is provided with a pair of spaced metal strip guides 12, the latter having attaching wings 13 and being formed with spaced straight parallel slots 14 and 15 the inner ends of which latter are curved downwardly, the slot 15 having a forwardly extended lower end 16 which forms a latching end.

The end rails 4 and 5 have mortises to receive the tenoned ends of a pair of longitudinal bars 17, which latter are spaced below the member 1 and with the side rails 8, support the leaves in contracted or housed position, as shown in Figure 3.

The leaf 10 has a pair of guides 18 similar to guides 12 and which are secured to the leaf by attaching wings 19. The pairs of guides 12 and 18 are slidably engaged with the bars 17 on opposite sides of the latter, as depicted in Figures 1 and 12. The guides 18 have slots 20 and 21 with latching ends 22 for the latter slots, as in the instance of the guides 12.

Rods 23 and 24 are connected at their ends to the bars 17 and extend through the respective slots 20 and 21 of the guides 18, while pins 25 and 26 extend through the respective slots 14 and 15 of the guides 12, the pins 25 and 26 being preferably driven through the bars 17 into the side rails 8.

The end rails 4 and 5 are each provided with a pair of sockets 27 in which spring pressed pins or latches 28 are housed the latter being disposed to engage heels 29 and 30 formed on the guides 12 and 18 respectively.

In operation, the leaves in housed or contracted position are disposed as shown to the left of Figure 2 and in Figure 3, and wherein same are engaged with the cross bars 2 and 3 have their inward movement restricted thereby, the cross bars having beveled edges so as to engage the beveled edges of the leaves 9 and 10, the rails 11 engaging on top of the rails 4 and 5.

When the leaves are to be extended, same are pulled outwardly, the rods 23 and 24, 25 and 26 controlling the movements of the guides 12 and 18, and causing the latter and thereby the leaves to move vertically as the curved ends of the respective slots of the guides enter into engagement with the rods. This movement of the guides causes the heels 29 thereof to engage and move the latches 28 inwardly and the latter upon the curved ends of the slots reaching the bottoms of the latter, will move outwardly and cause the latching ends 16 and 22 of the slots

to be entered by the rods 23 and 26, with the result that the latches exert pressure on the heels 29 and 30 so as to hold the beveled edges of the member 1 and the leaves 9 and 10 in close engagement.

To restore the leaves to contracted or housed position, same are first moved outwardly, depressing the latches and causing the rods 26 or 23 to be disengaged from the latching ends 16 and 22 of the slots, whereupon the outer ends of the leaves are tilted and moved inwardly whereby the guides and therewith the leaves are caused by the slots and rods or pins to move to the housed position depicted in the drawings.

What is claimed is:

1. In an extension table, legs, a central member fixed to the legs, end and side rails fixed to the legs and spaced below the central member, spaced cross bars depending from the central member, leaves having depending end rails formed to seat on the end rails of the central member, spaced longitudinal bars depending from the central member, a pair of spaced guides carried by each leaf and each having a pair of superposed slots with downwardly curved ends having latching terminals, the respective pairs of guides being disposed on opposite sides of the longitudinal bars, rods connected to the longitudinal bars and extending through the slots of the inner pair of bars, pins connected to the longitudinal bars and to the side rails and extending through the slots of the outer pair of bars, said guides having heels, and spring pressed latches carried by the end rails and engaging the heels of the guides to urge the latter inwardly and thereby the leaves so as to hold the latter engaged with the ends of the central member.

2. In an extension table, legs, a central member fixed to the legs, end and side rails fixed to the legs and spaced below the central member, spaced cross bars depending from the central member, leaves having depending end rails formed to seat on the end rails of the central member, spaced longitudinal bars depending from the central member, a pair of spaced guides carried by each leaf and each having a pair of superposed slots with downwardly curved ends having latching terminals, the respective pairs of guides being disposed on opposite sides of the longitudinal bars, fixed members extending through the respective slots to support the guides, heels on the guides, and spring pressed latches carried by the end rails and engaging the heels to hold the leaves against the ends of the central member.

3. In an extension table, a central member, leaves, guides having heels connected to the leaves, means to mount the guides to effect movement of the leaves into and out of the plane of the central member, and spring pressed latches for engagement with the heels to automatically urge the guides and thereby the leaves inwardly so as to hold the leaves engaged with the central member.

4. In an extension table, a top member, a leaf, means to slidably mount the leaf for movement beneath the top member and the plane thereof, compressible means spaced below the top member, and means carried by the leaf and which upon outward movement of the leaf engages and effects compression of the compressible means and which upon release of the leaf and expansion of the compressible means is automatically moved to slide the leaf against the top member.

5. In an extension table, a top member, a leaf, means to slidably mount the leaf for outward movement to enable same to be disposed in the plane of the top member, including a guide having a heel, and means for engaging the heel to automatically urge same inwardly and therewith slide the leaf against the top member.

6. In an extension table, a top member, a leaf, means to slidably mount the leaf for movement beneath the top member and in the plane thereof, and power means for the leaf which upon outward sliding of the leaf has power stored therein by engagement with the leaf and which power when the leaf is in the plane of the top member is released to automatically slide the leaf inwardly against the top member.

In testimony whereof I affix my signature.

HENRY CORDES.