

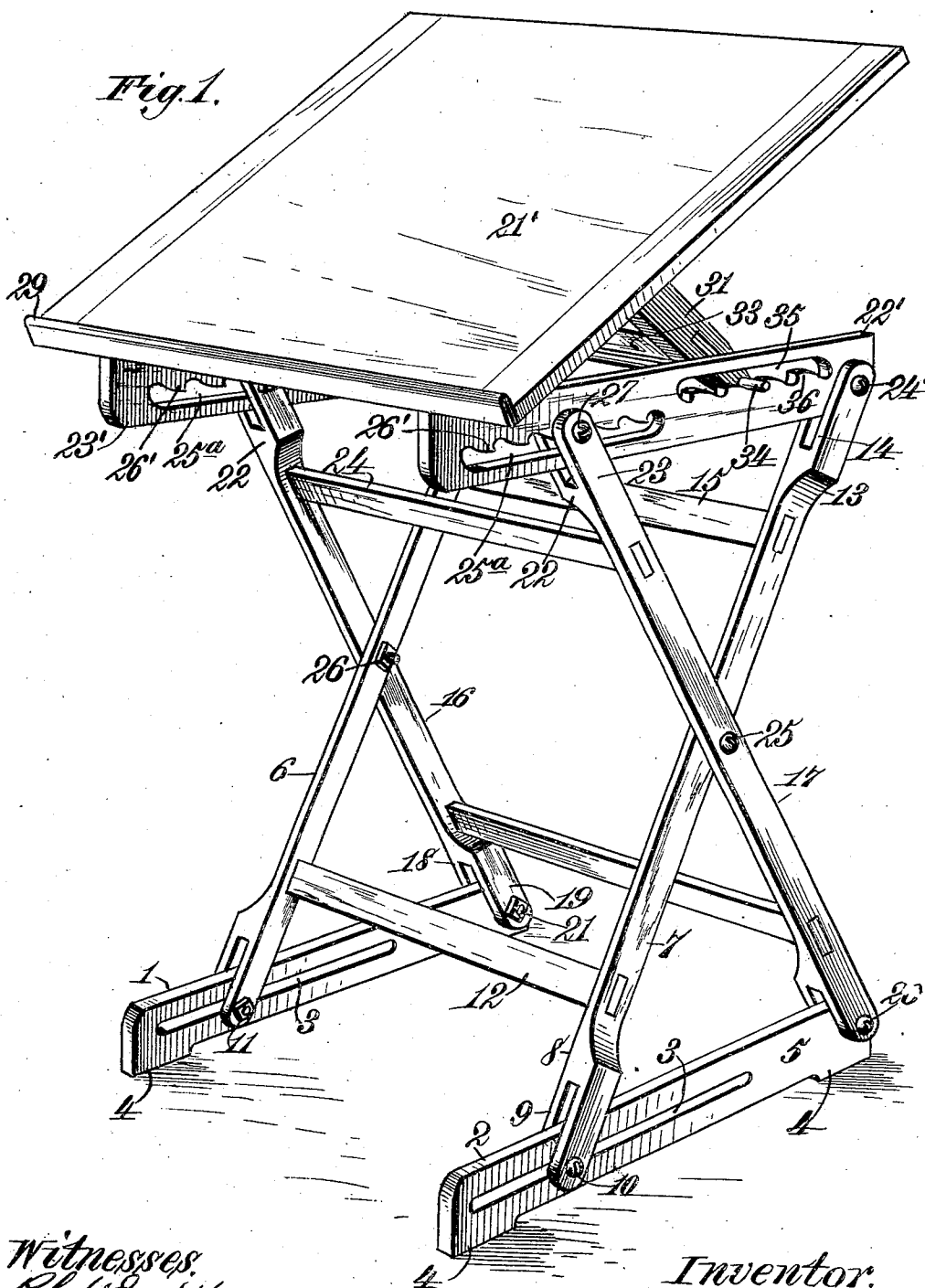
No. 879,620.

PATENTED FEB. 18, 1908.

L. FORSYTH.
DRAWING TABLE.

APPLICATION FILED NOV. 1, 1907.

2 SHEETS—SHEET 1.



Witnesses:
Robert Cornett,
[Signature]

Inventor:
Luther Forsyth,
By *James L. Morris*
Atty.

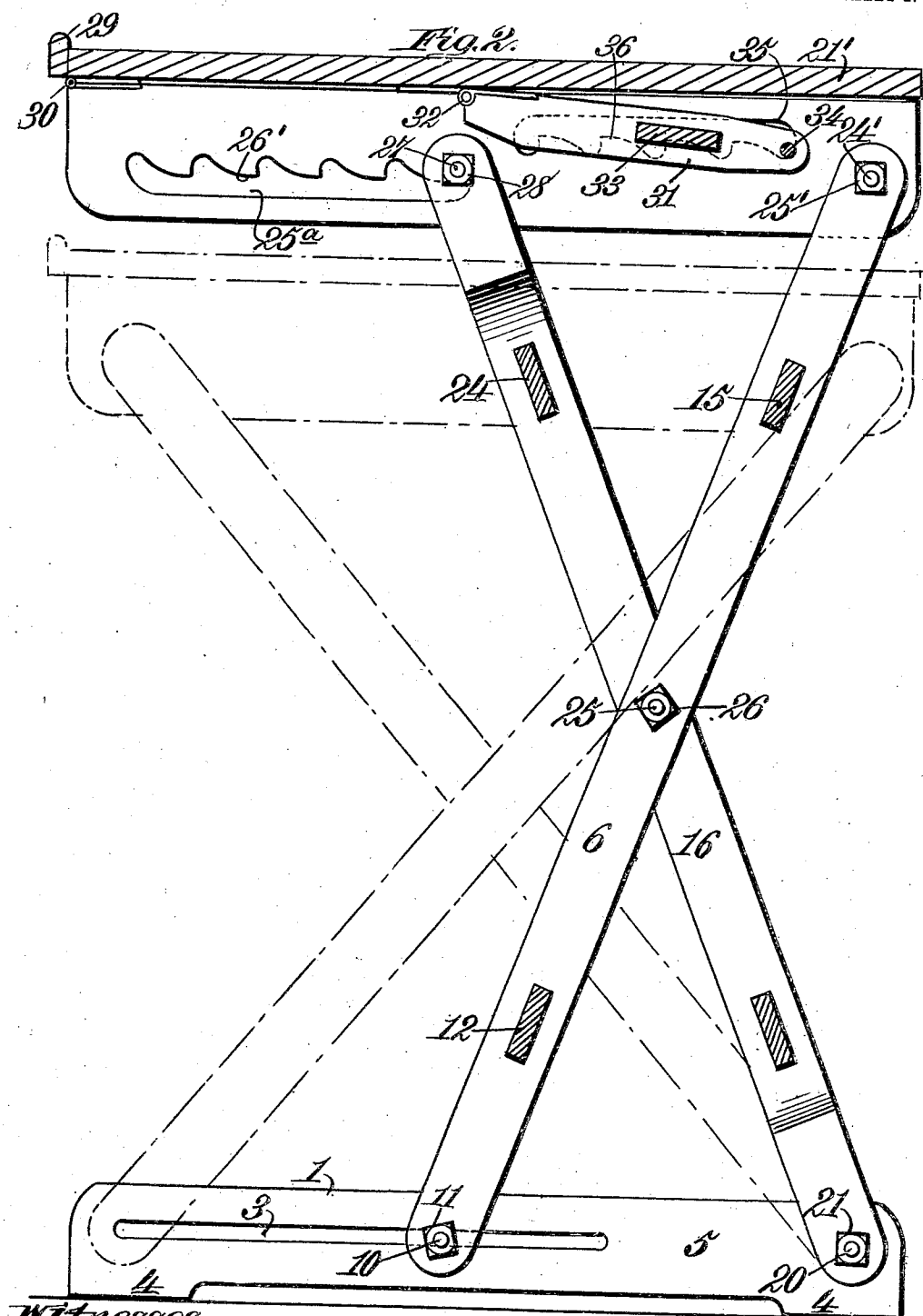
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Witnesses.
Robert Everett.
W. B. Keefe

Inventor.
Luther Forsyth.
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UNITED STATES PATENT OFFICE.

LUTHER FORSYTH, OF HAGERSTOWN, MARYLAND.

DRAWING-TABLE.

No. 879,620.

Specification of Letters Patent.

Patented Feb. 18, 1908.

Application filed November 1, 1907. Serial No. 400,240.

To all whom it may concern:

Be it known that I, LUTHER FORSYTH, a citizen of the United States, residing at Hagerstown, in the county of Washington and State of Maryland, have invented new and useful Improvements in Drawing-Tables, of which the following is a specification.

This invention relates to drawing tables, and the objects thereof are, first, to provide in a manner as hereinafter set forth, a light yet perfectly stable structure for drafting purposes; second, to provide for a quick and convenient adjustment of the table as to height; third, to provide for a convenient adjustment of the table top which constitutes the drawing board to any desired angle; and fourth, to embody in the table a pair of base rails whereby there is provided a uniform width of base when the table is being raised from a minimum to a maximum height, or vice-versa.

A further object of the invention is to provide a drawing table which shall be simple in its construction, strong, durable, efficient in use, readily adjusted and comparatively inexpensive to manufacture.

With the foregoing and other objects in view, the invention consists in the novel construction, combination and arrangement of parts hereinafter more specifically described and illustrated in the accompanying drawings, wherein is shown the preferred embodiment of the invention; but it is to be understood that changes, variations and modifications can be resorted to which come within the scope of the claims hereunto appended.

In the accompanying drawings, wherein like characters refer to corresponding parts throughout the several views—Figure 1 is a perspective view of a drawing table in accordance with this invention, showing the drawing board adjusted at an inclination with respect to its supports, and, Fig. 2 is a vertical sectional view, showing in full lines the adjustment of the table top with respect to height and in dotted lines the normal position of the table.

Referring to the drawings in detail, the base of the table is formed of a pair of longitudinally-extending rails 1, 2, each of the same length and each provided with a longitudinally-extending slot 3 and a pair of depending protuberances 4, constituting feet for the said rails. The slot 3 in each of the rails is of a length as to extend from a point in close proximity to the forward edge of its

respective rail and terminate at a point remote from the rear edge of its respective rail, thereby providing a solid portion 5.

The reference characters 6, 7 denote a pair of rearwardly-inclined supporting legs, each of which is enlarged at its lower end as at 8 and bifurcated as at 9. The said bifurcated ends of the legs 6, 7 straddle the base rails 1, 2 and are slidably connected therewith through the medium of the bolts 10 and nuts 11, these latter being mounted upon the bolts and the bolts extending through the slots 3. The legs 6, 7 are connected together and braced in proximity to the enlarged ends 8 by means of a transversely-extending brace member 12, the ends of which are mortised in the legs 6, 7. These latter have the upper ends thereof enlarged as at 13 and bifurcated as at 14. The function of the bifurcated ends 14 of the legs 6, 7 will be hereinafter referred to. The legs 6, 7 in close proximity to the enlarged ends thereof are connected together and braced apart through the medium of a brace member 15 having the ends thereof mortised in the legs.

The reference characters 16, 17 denote a pair of forwardly-inclined legs having the lower ends thereof enlarged as at 18 and bifurcated as at 19, whereby the said lower ends of the legs 16, 17 straddle the rear ends of the rails 1, 2. The enlarged ends 18 of the legs 16, 17 are pivotally connected to the rear of the rails 1, 2 through the medium of the bolts 20 and nuts 21, these latter being mounted upon the bolts. The upper ends of the legs 16, 17 are enlarged as at 22 and bifurcated as at 23 and the function of the bifurcated ends 22 of the legs 16, 17 will be hereinafter referred to. The legs 16, 17 are connected together and braced at a point in proximity to their enlarged upper and lower ends through the medium of the brace members 24, having their ends mortised in the said legs 16, 17. The legs 16, 17 are arranged against the outer side of the legs 6, 7 and at their centers the said legs 16, 17 are pivotally connected to the legs 6, 7 at their centers through the medium of the bolts 25 and nuts 26, these latter being mounted upon the bolts 25. The table top comprises an adjustable drawing board 21' and a pair of side rails 22', 23', and to the rear ends of the side rails 22', 23' are pivotally connected the bifurcated upper ends 14 of the legs 6, 7 through the medium of the bolts 24' and nuts 25', these latter being mounted upon

the bolts 24'. Each of the side rails 22', 23' is formed with a longitudinally-extending slot 25^a having the upper wall thereof formed with a series of teeth 26'. The enlarged bifurcated ends 22 of the legs 16, 17 straddle the side rails 22', 23' at the forward portions of said side rails and, projecting through the bifurcated ends 22 of the legs 16, 17 are the bolts 27 upon the inner ends of which are mounted the nuts 28. The bolts 27 extend through the slots 25^a and are adapted to engage the teeth 26', thereby maintaining the rails 23' in position after they are vertically adjusted. The bolts 27 also act as a means for supporting the table top in its normal position and also when it is vertically adjusted. The forward wall of each of the slots 25^a constitutes a stop for limiting the adjustment of the table when lowering the top, and the rear walls of the slots 25^a constitute a means for limiting the adjustment of the table when elevating the top. The drawing board 21' is formed with a ledge 29 at its lower or forward end and is connected through the medium of the hinges 30 to the front ends of the side rails 22', 23', the said hinges 30 being secured to the top edges of the said side rails and the lower face of the drawing board 21'. The latter is also hinged to a pair of adjustable supports 31, and for this purpose hinges 32 are provided which are secured to the supports 31 and to the lower face of the drafting board 21'. The adjustable supports 31 are connected together and braced through the medium of a transversely-extending rod 33, and, extending through the lower ends of the said supports 31 is a rod 34, the ends of which project from the supports and enter longitudinally-extending slots 35 formed in the side rails 22', 23'. The slots 35 are formed in the side rails 22', 23' at a point above the plane of the slots 25^a and the lower walls of the slots 35 are formed with a series of teeth 36 constituting stops for the projecting ends of the rod 34. The end walls of the slots 35 constitute means for limiting the adjustment of the supports 31. These latter provide means for supporting the drafting board at various inclinations with respect to the side rails 22', 23'.

The nuts 28 constitute a locking means for maintaining the table in position when it is adjusted to height and the rod 34 provides a locking means for maintaining the drawing board 21' in position after it has been adjusted at an inclination with respect to the side rails. The slots 3 provide means whereby the legs 6, 7 can be shifted to allow of the adjusting of the height of the table top. The supports 31 are positioned between the side rails 22', 23' so that the drafting board can be lowered and engage the top edges of the side rails, thereby allowing of the drafting board to assume a flat position.

The base rails 1, 2 provide a uniform width of base when the table is being raised from the minimum to a maximum height, consequently supporting the table whether it be adjusted or otherwise.

What I claim is:—

1. A drawing table embodying a pair of side rails each provided with a pair of longitudinally extending slots, the upper wall of one of said slots being toothed and the lower wall of the other of said slots being toothed, a drawing board pivotally mounted on said rails, means connected to said board and engaging in the slots having the lower wall toothed for maintaining said board at an inclination, a pair of legs pivotally connected to said rails, and a pair of legs pivotally connected to the first mentioned pair and engaging in the slots having the upper walls toothed for maintaining the table in an adjusted position with respect to height.

2. A drawing table embodying a pair of side rails each provided with a pair of longitudinally extending slots with one wall of each of the slots toothed, a drawing board pivotally mounted on said rails, means connected to said board and engaging the teeth formed in the walls of one pair of slots for maintaining said board at an inclination, a pair of legs pivotally connected to said rails, and a pair of legs pivotally connected to the first mentioned pair of legs and engaging in the teeth formed in the walls of the other pair of slots for maintaining the table in an adjusted position with respect to height.

3. A drawing board comprising a pair of side rails each provided with a pair of slots, a base formed of a pair of longitudinally-extending rails, a pair of supporting legs having bifurcated ends connected to the side rails and bifurcated lower ends slidably connected to the base rails, a pair of supporting legs having bifurcated lower ends pivotally connected to the base rails and bifurcated upper ends slidably connected in one of the slots in each of the side rails, means for pivotally connecting the legs of one pair to the legs of the other pair, said legs providing means for vertically adjusting the said side rails, a drawing board pivotally mounted on the side rails, and means engaging with the drawing board and in the other slot of each of the side rails for adjustably supporting the drawing board at various inclinations.

4. A drawing table embodying a pair of side rails each provided with a pair of longitudinally extending slots with one wall of each of the slots toothed, a drawing board pivotally mounted on said rails, means connected to said board and engaging the teeth formed in the walls of one pair of slots for maintaining said board at an inclination, a pair of legs pivotally connected to said rails, a pair of legs pivotally connected to the first mentioned pair of legs and engaging in the

5 teeth formed in the walls of the other pair of slots for maintaining the table in an adjusted position with respect to height, a pair of base rails, means for pivotally connecting one pair of legs to the rear of the base rails, and means for slidably connecting the other pair of legs to the base rails.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

LUTHER FORSYTH.

Witnesses:

CLAYTON RITTER,
GROVER O. ANDREW.