Nov. 11, 1952 F. CONLEY ET AL 2,617,219

VISIBLE REFERENCE DESK STAND

Filed Oct. 15, 1949

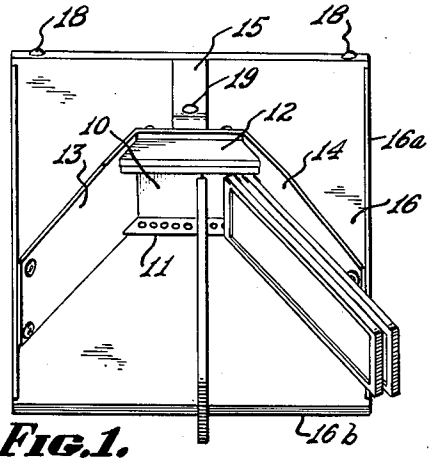


FIG. 1.

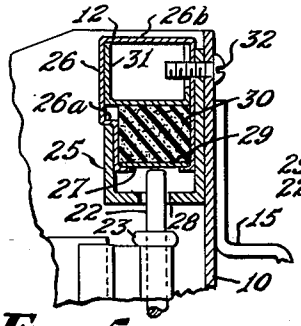


FIG. 5.

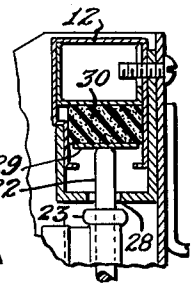


FIG. 6.

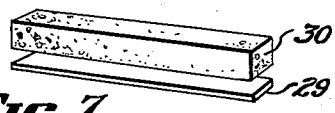


FIG. 7.

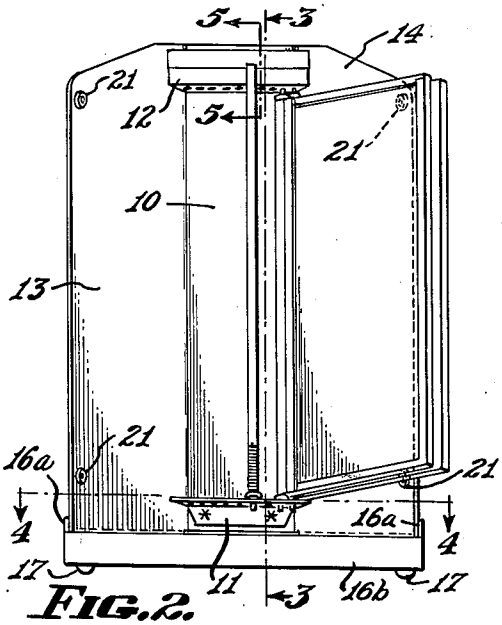


FIG. 2.

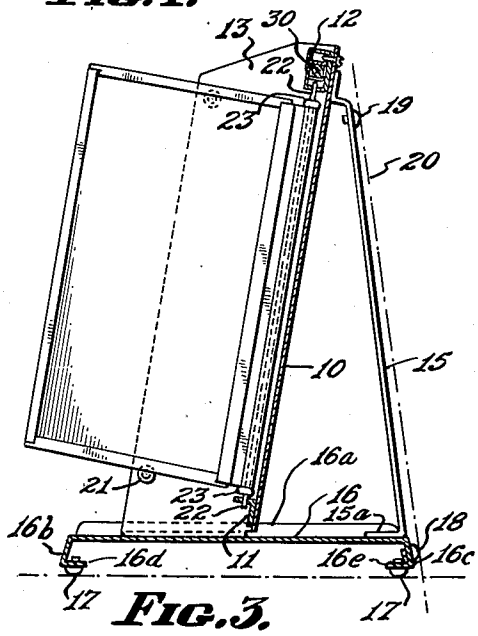


FIG. 3.

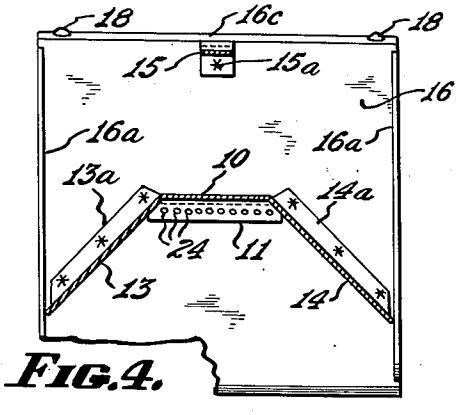


FIG. 4.

INVENTORS.
AND FRANK CONLEY
STEVE G. BUDAI,
BY

Allen & Allen

ATTORNEYS.

Patented Nov. 11, 1952

2,617,219

UNITED STATES PATENT OFFICE

2,617,219

VISIBLE REFERENCE DESK STAND

Frank Conley and Steve G. Budai, Norwood, Ohio, assignors to The Globe-Wernicke Co., Norwood, Ohio, a corporation of Ohio

Application October 15, 1949, Serial No. 121,558

7 Claims. (Cl. 40—102)

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This invention relates to a visible reference desk stand and more particularly to a stand wherein a plurality of leaves carrying visible reference data may be supported on a desk or the like in a convenient viewing position.

It is an object of the invention to provide a stand as above outlined which is susceptible of use in either one of two alternative positions. In one position the leaves are held at an acute angle to the vertical, and in the other position the leaves are held at an acute angle to the horizontal. One position is preferable in some instances, while in other instances the other position is preferred and it is therefore among the objects of the invention to provide a device which can be used without modification in either of the two positions mentioned.

In connection with the mounting of the leaves which carry the reference data it is another object of the invention to provide a novel pintle mounting bracket which permits the removal of leaves and their replacement, with a minimum of difficulty, and which at the same time is simple in construction and substantially foolproof.

These and other objects of the invention which will be set forth in greater detail hereinafter or which will be apparent to one skilled in the art upon reading these specifications we accomplish by that certain construction and arrangement of parts of which we shall now describe an exemplary embodiment.

Reference is made to the drawings forming a part hereof and in which:

Figure 1 is a plan view of a device according to our invention.

Figure 2 is a front elevational view of the same.

Figure 3 is a cross sectional view taken on the line 3—3 of Figure 2.

Figure 4 is a cross sectional view of the same taken on the line 4—4 of Figure 2.

Figure 5 is a detailed fragmentary cross sectional view on an enlarged scale taken on the line 5—5 of Figure 2, showing the pintle mounting bracket in its normal condition.

Figure 6 is a view similar to Figure 5 but showing the pintle mounting bracket in the course of removal of a leaf.

Figure 7 is a perspective view of a piece of sponge rubber and a contact plate used in the device.

Briefly, in the practice of our invention we provide a frame having at its opposite ends pintle engaging members so that the leaves may be mounted on the frame between these pintle mounting elements. The frame and a support for

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the frame are mounted on a base in the manner of an easel with the support and frame secured together at their tops and secured respectively to the base in spaced relation forming acute angles with the vertical on either side thereof. The base is provided with foot members to support the device in its vertical position and the support and the rear side of the base are provided with other foot members to support the device in a more or less horizontal position.

Referring now more particularly to the drawings, we have shown a frame member generally at 10, to which are secured the pintle engaging members indicated generally at 11 and 12. These members will be described in more detail hereinafter.

The frame 10 is provided with the side members 13 and 14 extending forwardly at an angle to the plane of the member 10. The entire structure, including the members 10, 13 and 14, is tilted rearwardly slightly as best seen in Figure 3, and the angular relationship between the members 10, 13 and 14 is best seen in Figure 4. A support is indicated at 15 and is in the nature of a prop which may be spot welded or otherwise suitably secured to the back of the member 10 adjacent its upper end. The assembly of the members 10, 13 and 14 (which may of course and preferably will be formed from a single sheet of material) is secured to a base member 16, as by means of spot welds securing the flanges 13*a* and 14*a* to the base member 16 as best seen in Figure 4. The support or prop 15 is suitably secured to the base 16 as by spot welding at 15*a*. The base 16 may be provided with lateral upwardly extending flanges 16*a* and with the downwardly extending front and rear flanges 16*b* and 16*c*. The flanges 16*b* and 16*c* are inturned at their free ends as indicated at 16*d* and 16*e*, and rubber foot members or the like are secured thereto as indicated at 17. When the device is standing on the foot members 17, as seen in Figure 3, the leaves are supported at an acute angle to the vertical so as to be conveniently positioned for examination by an operator seated at a desk upon which the stand is disposed.

The flange 16*c* is provided with foot members 18 similar to the foot members 17 and a foot member 19 is provided at the upper ends of the support 15. Thus the stand may be placed upon a surface as indicated in broken lines at 20 resting upon the foot members 18 and 19 so that the leaves will be held at an acute angle to the horizontal in a position convenient for examination by a standing person. The effect may

be visualized by rotating Figure 3 approximately 90° in a clockwise direction and considering the broken line 20 as the surface of a desk or the like.

The side members or wing members 13 and 14 will preferably be provided with the bumper button indicated at 21 in order to protect the leaves when they are resting against the members 13 and 14.

Coming now to a more detailed description of the mounting of the leaves it will be understood that the leaves are of conventional construction and are provided with the pintles 22. These pintles may be identical at the opposite ends of the device and are provided with the collars 23. The pintle mounting bracket 11 is simply a piece of angle metal suitably spot welded or otherwise secured to the frame 10 and having in its free limb a series of pintle engaging holes 24. The upper pintle mounting bracket which has been generally indicated at 12 is shown in detail in Figures 5 and 6. As can be seen from these figures it comprises a channel member 25 and a box-like member 26 which has a portion fitting into the channel 25. For the sake of appearance an offset has been provided in the member 26 as at 26a so that the appearance of the bracket is improved. The bottom surface of the box-like member 26 is open or slotted as indicated at 27 in substantial alignment of pintle engaging apertures 28 in the transverse web of the channel 25. The slot or opening 27 is closed by a contact plate 29 on top of which is placed a block of sponge rubber or other suitable resilient material 30. The block 30 is held in place by an additional channel member 31 in reverse position which is disposed between the transverse web 26b of the box-like element 26 and the block 30. The channel 25 is spot welded to the frame or panel 10, and the box-like member 26 is held in place by sheet metal screws or the like at 32. The channel member 31 has its rear flange notched to clear the screws 32 and is simply held in position by the various members.

The position of the parts in Figure 5 is the normal position with the leaves in place. If it is desired to remove a leaf so that reference data may be brought up to date or changed, the entire leaf is lifted upwardly with the pintle 22 bearing against the contact plate 29 and compressing the block 30 as seen in Figure 6. In the position of Figure 6 the lower pintle 22 will have cleared the bracket 11 and the leaf may be readily removed from the stand. In reinserting the leaf the upper pintle 22 is first inserted in its proper aperture and then upward pressure is exerted to compress the block 30 until the lower pintle can be inserted into its appropriate pintle engaging aperture in the bracket 11.

The compressibility of the material 30 is such that accidental displacement of the leaves is avoided and yet the material is soft enough so that if it is deliberately desired to remove a leaf it can be done without the exertion of great strength. It will be observed that the box-like structure 26 covers the spacing channel 31 and also covers the screw 32 so that the appearance of the device is neat, as best seen in Figures 1 and 2.

It will be understood that numerous modifications may be made without departing from the spirit of our invention. We therefore do not intend to limit ourselves in any way other than as specifically set forth in the claims which follow.

Having now fully described our invention what we claim as new and desire to secure by Letters Patent is:

1. A pintle mounting bracket comprising a member provided with pintle apertures, a box-like structure in said member spaced from said apertures, and having a slot aligned with said apertures, a block of compressible material within said box-like structure and a contact plate within said structure and covering said slot.

2. A pintle mounting bracket comprising a channel member having a row of pintle apertures in its transverse web, a box-like structure having a slotted side disposed in said channel member with said slotted side spaced from the transverse web of said channel member, a contact plate in said box-like structure covering said slotted side, and a block of compressible material within said box-like structure.

3. A pintle mounting bracket comprising a channel member having a row of pintle apertures in its transverse web, a box-like structure having a slotted side disposed in said channel member with said slotted side spaced from the transverse web of said channel member, a contact plate in said box-like structure covering said slotted side, and a block of sponge rubber within said box-like structure.

4. A visible reference desk stand for use with pintle-mounted reference leaves, comprising a frame, a bracket having pintle engaging holes mounted at one end of said frame, a pintle mounting bracket mounted at the other end of said frame, said last mentioned bracket comprising a member provided with pintle engaging apertures, a box-like structure in said member spaced from said apertures and having a slot aligned with said apertures, a block of compressible material within said box-like structure and a contact plate within said structure and covering said slot, a base and a support for said frame, said frame and support being secured together at their upper ends, and said frame and support being secured to said base at their lower ends in spaced relation, with said frame and support disposed at an acute angle to each other and with said frame at an angle of less than 45° to the vertical, whereby said stand, when standing on said base, releasably supports said leaves at an angle of less than 45° to the vertical, and when standing on said support, it releasably supports said leaves at an angle of less than 45° to the horizontal.

5. A visible reference desk stand for use with reference leaves, comprising a frame, spaced leaf engaging members on said frame, yieldable means associated with one of said members for holding said reference leaves against accidental displacement in any position of said stand, a base and a support for said frame, said frame and support being secured together at their upper ends, and said frame and support being secured to said base at their lower ends in spaced relation, with said frame and support disposed at an acute angle to each other with said frame at an angle of less than 45° to the vertical, whereby said stand, when standing on said base, releasably supports said leaves at an angle of less than 45° to the vertical, and when standing on said support, releasably supports said leaves at an angle of less than 45° to the horizontal.

6. A visible reference desk stand for use with pintle-mounted reference leaves, comprising a frame, spaced pintle engaging members on said frame, yieldable means associated with one of said members for holding said pintles against accidental displacement in any position of said stand, a base and a support for said frame, said frame and support being secured together at their upper

ends, and said frame and support being secured to said base at their lower ends in spaced relation, with said frame and support disposed at an acute angle to each other with said frame at an angle of less than 45° to the vertical, whereby said stand when standing on said base, releasably supports said leaves at an angle of less than 45° to the vertical, and when standing on said support, releasably supports said leaves at an angle of less than 45° to the horizontal.

7. A visible reference desk stand for use with pintle-mounted reference leaves, comprising a frame, spaced pintle engaging members on said frame, yieldable means associated with one of said members for holding said pintles against accidental displacement in any position of said stand, a base and a support for said frame, said frame and support being secured together at their upper ends, and said frame and support being secured to said base at their lower ends in spaced relation, with said frame and support disposed at an acute angle to each other with said frame at an angle of less than 45° to the vertical, foot members on

said base for supporting said stand with said leaves releasably held at an angle of less than 45° to the vertical, and other foot members on the back side of said base and on said support for supporting said stand with said leaves releasably held at an angle of less than 45° to the horizontal.

FRANK CONLEY.
STEVE G. BUDAI.

REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
1,587,299	Grossman	June 1, 1926
1,646,573	Buzza	Oct. 25, 1927
1,890,182	Hunter	Dec. 6, 1932

FOREIGN PATENTS

Number	Country	Date
527,297	Great Britain	Oct. 7, 1940