J. F. VOGEL.

BRACKET.

APPLICATION FILED MAR. 26, 1914.

1,112,736. Patented Oct. 6, 1914.

Fig: 1.

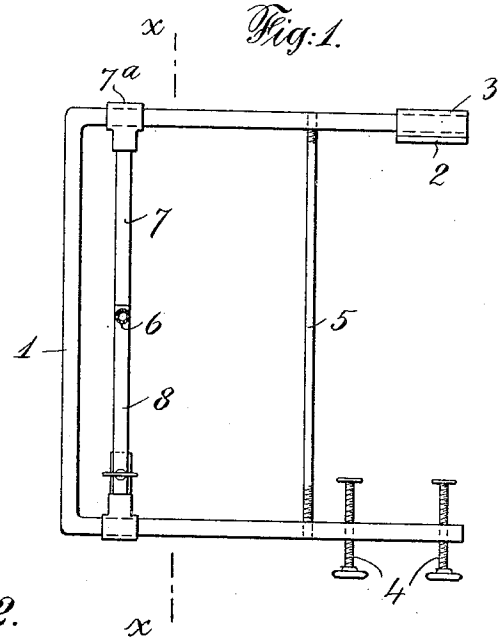
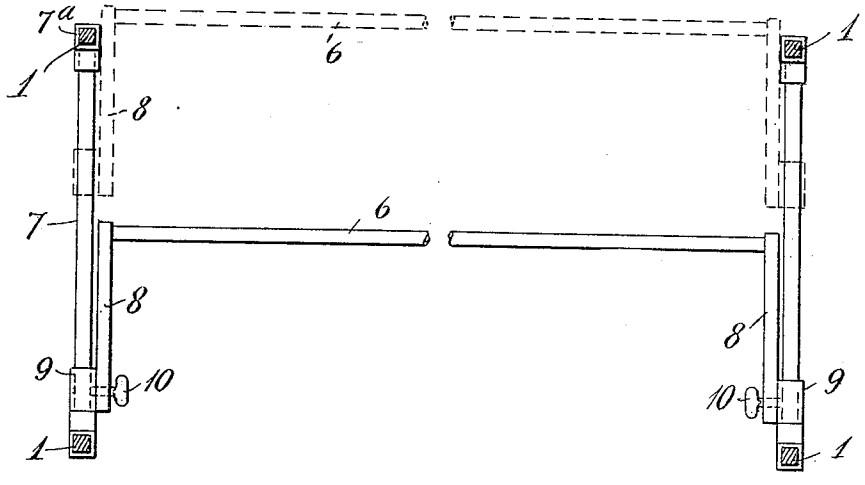


Fig: 2.



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UNITED STATES PATENT OFFICE.

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BRACKET.

1,112,736. Specification of Letters Patent. Patented Oct. 6, 1914.

Original application filed December 10, 1913, Serial No. 805,778. Divided and this application filed March 26, 1914. Serial No. 827,366.

To all whom it may concern:

Be it known that I, JOSEPH F. VOGEL, citizen of the United States of America, and a resident of New York, county of Bronx, and State of New York, have invented certain new and useful Improvements in Brackets, of which the following is a specification.

My invention relates to brackets such as are employed for clamping articles together, or for clamping various articles to a suitable support, and comprises an improved construction of bracket, whereby rigidity is obtained in a bracket composed of relatively light members, and whereby parallelism between the sides of the bracket is secured.

My improved bracket is particularly intended for use as a part of the wrist supporting and guiding attachment for pianos and the like, illustrated and described in my application for Letters Patent filed December 10, 1913, Serial No. 805,778; but said bracket is also adapted for various other uses.

My invention consists in the novel construction and arrangement of the parts of the bracket, as hereinafter described, and particularly pointed out in the appended claims.

The object of my invention is to provide a light, simple and inexpensive bracket, which, may be made light and yet shall be very rigid and may have a wide span.

I will now proceed to describe my invention with reference to the accompanying drawings, and will then point out the novel features in claims.

In the drawings: Figure 1 shows a side elevation of a bracket embodying my invention, said bracket being shown as provided also with a slide member adapted to move along the arms of the bracket, which slide member, in my wrist support above referred to, is employed for carrying the wrist guide; though said slide member is also adapted for other uses; and Fig. 2 shows, in section, two such brackets, in connection with the said wrist guide, the section being taken on the line x—x of Fig. 1.

Referring first to Fig. 1, numeral 1 designates the bracket, of approximately U-form, having a spread or span adapting it to be secured to a piano or other instrument, or to any other suitable support. The upper arm of the bracket is provided with a cushion 2, of rubber, felt or other suitable soft and yielding material, such as will permit clamping of the bracket to the piano or other suitable support, without injury to the finished or varnished surface of such support. In practice this cushion 2 is commonly attached to a block 3 of wood or other suitable material, suitably secured to the upper arm of the bracket. It is not ordinarily necessary to provide for adjustment of this block 3, in and out on the bracket. The lower arm of the bracket is provided with suitable clamping means such as clamping screws 4, adapted to engage the under side of the piano or other support. I have illustrated the provision of two such clamping screws 4 on the bracket, but do not limit myself to any particular number of clamping screws, or to the use of clamping screws as distinguished from other equivalent clamping means. To insure rigidity of each bracket 1, notwithstanding the lightness of the construction of the bracket, and to insure substantial parallelism of the two arms of each bracket (such parallelism being desirable since, as hereinafter described, a sliding member is or may be mounted to move back and forth on the two arms of the bracket) I connect the two arms of the bracket by a tie rod 5 or equivalent connection, such tie rod 5 being screw threaded into the two arms of the bracket, or otherwise connected in any other suitable manner. 7 designates a slide member adapted to move along the two arms of the bracket. It will be obvious that, in order that the slide member may so move, substantial parallelism of the two arms of the bracket is necessary; this is one reason for the provision of the tie rod 5.

In Fig. 2 I have shown two of these brackets 1 in connection with a wrist-supporting rod 6, supported from the slides 7 of the two brackets. For the adjustment of this wrist guide 6 in a direction at right angles to the direction of motion of the slide 7, I have provided, on the two slides 7, arms 8 to which arms the wrist guide 6 is directly connected, such arms 8 having slide bearings 9 on the slide rods 7. Suitable clamping screws 10 or other equivalent clamping means are provided for securing the arms 8 in any position to which they may be adjusted on the slides 7. No similar fastening means are ordinarily required for the slide

bearings 7ª of the slide 7, since the natural cramping of the said bearings on the arms of the bracket 1 ordinarily suffices to hold the slide rods 7 in any position to which they may be adjusted; but the slide rods 7 may nevertheless be moved in and out on the arms of the brackets 1 very readily, when this is desired.

I do not in this specification claim the complete wrist support illustrated in Fig. 2, as such wrist support is claimed in my prior application Sr. No. 805,778, above mentioned, of which the present application is a division; and in this present application I have illustrated the complete wrist guide as showing one application of my improved bracket, and as showing one use of the bracket in which parallelism of the sides thereof is desirable. It will be obvious that my bracket, with or without the slide member 7, is adaptable for various other uses, and I do not limit it to use as a part of the wrist guide illustrated and described.

What I claim is:—

1. An attaching bracket such as described, comprising a U-shaped member, a tie member connecting the arms of the U at points intermediate the ends and base of the U, said arms of the U being parallel between said base of the U and said tie member, said U shaped member provided, between the said tie member and the ends of its arms, with means for securing said bracket to a suitable support, and a slide member having sliding bearings on the arms of said bracket and movable in and out along said arms.

2. An attaching bracket such as described, comprising a U-shaped member, a tie member connecting the arms of the U at points intermediate the ends and base of the U, said arms of the U being parallel between said base of the U and said tie member, said U-shaped member provided, between the said tie member and the ends of its arms, with means for securing said bracket to a suitable support, a slide member having sliding bearings on the arms of said bracket and movable in and out along said arms, and an arm having a slide bearing on said slide member and movable therealong.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

JOSEPH F. VOGEL.

Witnesses:
H. M. MARBLE,
PAUL H. FRANKE.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."