J. A. PARK.

BRACKET.

APPLICATION FILED JULY 28, 1908.

1,071,011. **Patented Aug. 19, 1913.**

Fig. 2.

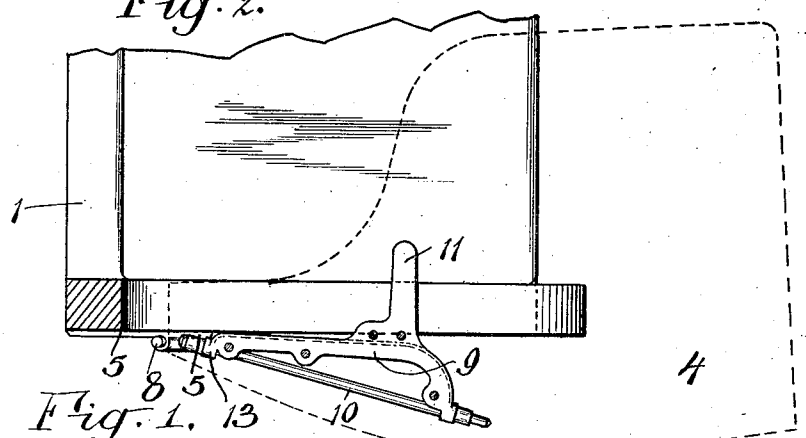


Fig. 1.

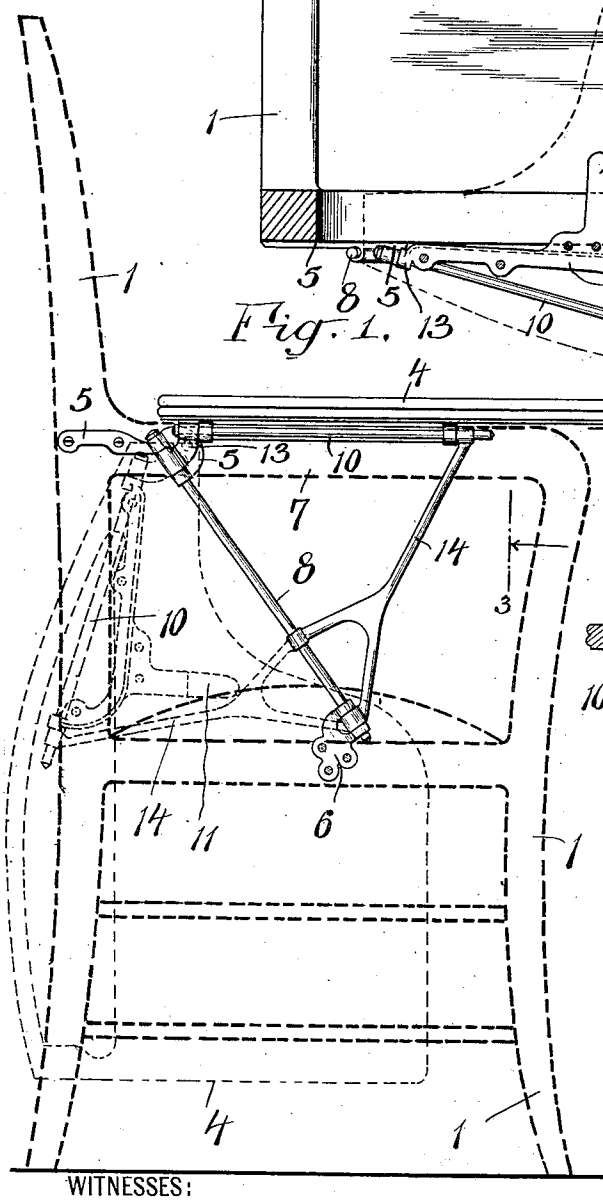
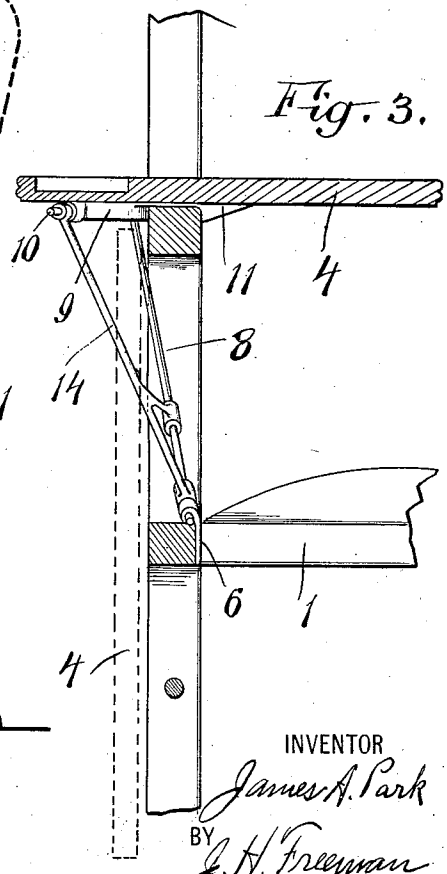


Fig. 3.



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BRACKET.

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To all whom it may concern:

Be it known that I, JAMES A. PARK, a citizen of the United States, and a resident of Passaic, county of Passaic, and State of New Jersey, have invented certain new and useful Improvements in Brackets, of which the following is a specification.

My invention relates to brackets; and, while it may be embodied in constructions adapted for various purposes, it is more particularly applicable to adjustable supporting brackets for chairs, desks, tables, and the like.

Objects of the invention are to provide a device of the character described which shall be simple and certain in operation; whose members shall be compactly and conveniently arranged; which shall be adapted to be used with a variety of articles, such as chairs, desks, tables, stoves, sewing machines, and the like; whose members shall be inconspicuous both in operation and when at rest; and which shall be simple and cheap and yet durable in construction. These and other objects of the invention will in part be obvious and in part be more fully set forth in the following description.

The invention consists in the novel parts, arrangements, combinations, features of construction, and improvements herein shown and described.

The accompanying drawing, which is referred to herein and forms a part hereof, illustrates one embodiment of the invention, the same serving in connection with the description herein to explain the principles of the invention.

Of the drawing: Figure 1 is a side elevation of an adjustable supporting bracket constructed in accordance with certain features of my invention and being shown as used in connection with a chair; Fig. 2 is a sectional plan view of the same taken on the line 2 of Fig. 1; and Fig. 3 is a vertical sectional view taken on the line 3 of Fig. 1.

An adjustable supporting bracket constructed in accordance with certain features of my invention comprises in combination, a supporting element, a supported element, and a connecting element pivoted to both said first two elements on axes which are disposed at an angle to each other. An adjustable supporting bracket constructed in accordance with certain other features of my invention comprises in combination, a supporting element comprising a plurality of members, a rod pivotally mounted in said members, a supported element, a rod pivotally mounted in said supported element and disposed at an angle to said first named rod, and a connecting element comprising a plurality of members between said first two elements. According to a preferred embodiment of the invention, the angle between said pivot rods is substantially forty-five degrees. In accordance with my invention, the supporting element of the bracket may be mounted upon a piece of furniture or other article of manufacture, as, for example, a stove or sewing machine, the same constituting a base, and the bracket serving to movably support a leaf or other element in operative relation to said article. These and other features of the invention will be more fully explained in the following description.

Referring now in detail to the drawing, the embodiment of the invention illustrated is shown as used in connection with a chair 1 having a desk or table leaf 4. It is the purpose of the invention, as used with the chair, to furnish a convenient and satisfactory means for bringing the leaf 4 from its inoperative position, shown by the dotted lines in Fig. 1, to its operative position on the arm of the chair, the usefulness of the leaf 4 in this latter position being obvious. To accomplish this result suitable swinging connections are provided between the chair 1 and the leaf 4. While these connections may be made in various ways, preferably and as shown, a supporting element is fastened to the side of the chair. While this supporting element may be fashioned in a variety of ways and may be located in different places on the chair, it is shown as comprising a member 5 fastened to the chair at or near the rear of the arm 7. Preferably and as shown, also, an additional supporting member 6 is secured to the seat of the chair, preferably at the inside thereof. The members 5 and 6 are provided with bearings in which is pivotally mounted a rod 8. The members 5 and 6, also, are preferably so constructed and secured to the chair that the rod or pivotal axis thereof is arranged at an angle of about forty-five degrees from the vertical.

A supported element is also provided, to which is secured the leaf 4. While this supported element may be variously formed and may comprise any desired number of mem-

bers which may be disposed in any desired positions on the leaf, preferably and as shown, it comprises a member 9 having bearings in which is pivotally mounted a rod 10 so disposed that the angle between it and the rod 8 is substantially forty-five degrees.

The leaf 4, when in operative position on the arm of the chair, may be removably secured thereto in any desired way. As shown, this is accomplished by providing an extension 11 to the supporting member 9, a recessed portion serving to engage the arm of the chair, and the extension 11 having a suitable slant to enable the leaf to move smoothly into operative position.

While any desired connections may be provided between the supporting element and the supported element, in the preferred embodiment of the invention illustrated in the drawing a connecting element is provided, comprising a member 13, pivotally mounted upon the rods 8 and 10 near the rear ends thereof, and, preferably, also, a member 14, pivotally mounted upon the rods 8 and 10 at the forward ends thereof, the member 14 being bifurcated at its lower end to give it greater stability.

As will be apparent from the foregoing description, the operation of the device is very simple. The rod 8 being disposed at an angle of about forty-five degrees to the leaf and its rod 10, the leaf describes an arc of ninety degrees in its path of travel from the position at rest, shown by the dotted lines in Fig. 1, to its operative position on the arm of the chair, and at the same time the leaf may be turned on its axis 10. Furthermore, it will be apparent that as the supporting member 6 is affixed to the inside of the seat of the chair, and the rod 8 is in close proximity to the side of the chair, and as the leaf is turned on the rod 10, as described, the leaf 4, when in its position of rest, will hug closely the side of the chair and not approach so far forward as to project beyond the leg of the chair. It will be apparent also that the swinging operation of the device can be effected by an apparatus having only a single supporting member. Furthermore, although the best results are secured in the particular adaptation of the device illustrated by parts proportioned and disposed as shown, it will be apparent that the number and extent of the members of the several elements may be varied as desired.

It will be seen that by reason of the construction described, a form of adjustable bracket is provided which is cheap to manufacture; simple and durable in construction; efficient in operation; not apt to get out of order; whose members are compactly arranged and inconspicuous; and which may be used with a great variety of objects, as chairs, desks, tables, stoves, sewing machines, and the like. Other advantages will be apparent to those skilled in the art.

My invention in its broader aspects is not limited to the precise construction shown and described nor to any particular construction by which the same has been or may be carried into effect, as many changes may be made in the details of the parts without departing from the main principles of the invention and without sacrificing its chief advantages.

I claim:

1. A bracket having in combination, a supporting element comprising a plurality of members, a supported element, and a connecting element comprising a plurality of members pivoted to said supporting and supported elements, the axis of the pivotal connections of the supported element being at an angle to the axis of the pivotal connections of the members of the supporting element.

2. A bracket having in combination, a supporting element comprising a plurality of members, a supported element, and a connecting element comprising a plurality of members pivoted to said supported and supporting elements, the axis of the pivotal connections of the supported element being at an angle of about forty-five degrees to the axis of the pivotal connections of the supporting element.

3. A bracket having in combination, a supporting element comprising a plurality of members, a pivot rod mounted in said supporting members, a supported element, a second pivot rod mounted in said supported element and disposed at an angle of about forty-five degrees to said first named pivot rod, and a connecting element mounted on said pivot rods.

4. A bracket having in combination, a supporting element comprising a plurality of members, a pivot rod mounted in said supporting members, a supported element, a second pivot rod mounted in said supported element and disposed at an angle of about forty-five degrees to said first named rod, and a connecting element comprising a plurality of members mounted on said pivot rods.

5. An article of furniture comprising in combination, a base portion, a supporting element secured to said base portion, a supported element, and a connecting element pivoted to said first two elements on axes which are disposed at an angle to each other, said pivotal axis of said supporting member being at an angle of about forty-five degrees from the vertical.

6. An article of furniture comprising in combination, a base portion, a supporting element secured to said base portion, a supported element, a connecting element pivoted

to said first two elements on axes which are disposed at an angle of about forty-five degrees to each other, a leaf fixed to said supported element, and means for holding said leaf in operative position.

7. An article of furniture comprising in combination, a chair, a supporting element comprising a plurality of members secured to the arm and seat, respectively, of said chair, a supported element, a connecting element pivoted to said first two elements on axes which are disposed at an angle of about forty-five degrees to each other, a leaf fixed to said supported element, and means for holding said leaf in operative position.

8. An article of furniture comprising in combination, a base portion, a supporting element secured to said base portion, a supported element, a connecting element pivoted to said supporting element, the pivotal axis being at a fixed angle of approximately forty-five degrees from the vertical, a leaf fixed to said supported element, and means for holding said leaf in operative position.

9. A chair having on one side an arm, a leaf or table, a supporting bracket including a member having a pivotal connection with the arm and a pivotal connection with the leaf, and means carried by the leaf and engaging the arm of the chair for holding the leaf in operative position, the pivotal axis of the supporting bracket with the leaf when the latter is in operative position being arranged at an angle to the chair arm whereby a three-point support for the leaf at one side of the chair is provided.

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

JAMES A. PARK.

Witnesses:
JAMES B. CLINTON,
M. WILBUR GREAR.

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