

W. S. GRAHAM.
ADJUSTABLE BRACKET.
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1,089,337.

Patented Mar. 3, 1914.

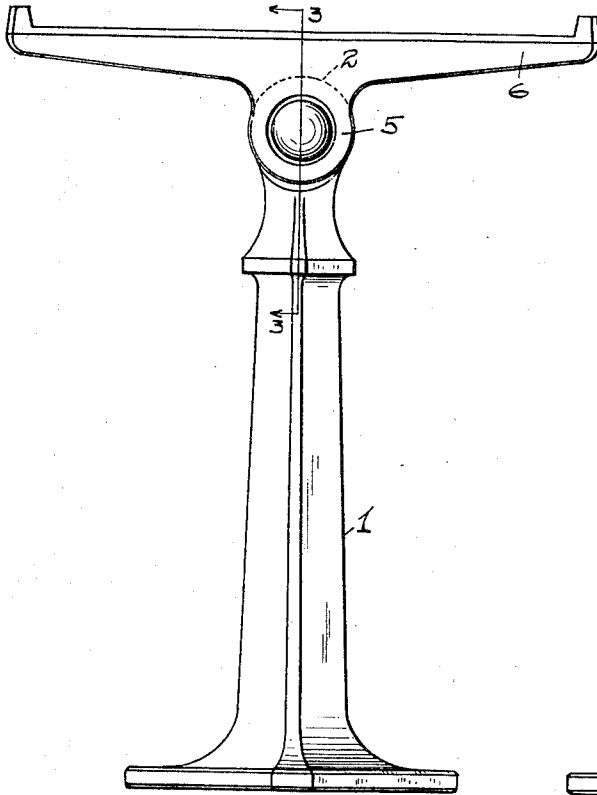


Fig. 1-

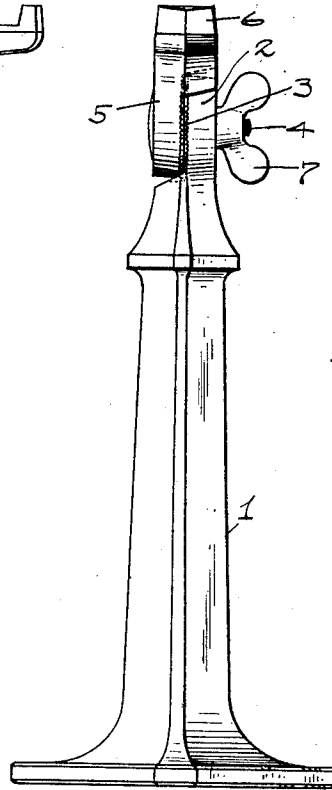


Fig. 2

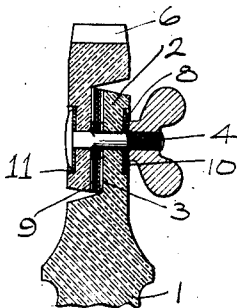


Fig. 3-

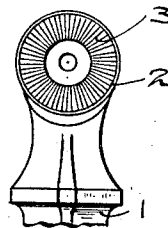


Fig. 4-

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UNITED STATES PATENT OFFICE.

WALLACE S. GRAHAM, OF LANCASTER, OHIO, ASSIGNOR TO THE LANCASTER GLASS COMPANY, OF LANCASTER, OHIO, A CORPORATION OF OHIO.

ADJUSTABLE BRACKET.

1,089,337.

Specification of Letters Patent.

Patented Mar. 3, 1914.

Application filed September 5, 1913. Serial No. 788,309.

To all whom it may concern:

Be it known that I, WALLACE S. GRAHAM, a citizen of the United States, and a resident of Lancaster, county of Fairfield, and State of Ohio, have invented a new and useful Improvement in Adjustable Brackets, of which the following is a specification, the principle of the invention being herein explained and the best mode in which I have contemplated applying that principle, so as to distinguish it from other inventions.

The subject of the present application is a new and improved bracket. It is desirable to construct brackets for certain purposes of glass and it has been extremely difficult to design such a construction which would be adjustable and would at the same time not be easily broken. These faults are apparently remedied by the present invention which can be readily adjusted to any angle and which is thoroughly protected from injury which might be caused by the operation of adjustment.

To the accomplishment of these and related ends said invention then consists of the means hereinafter fully described and particularly pointed out in the claims.

The annexed drawing and the following description set forth in detail certain mechanism embodying the invention, such disclosed means constituting, however, but one of various mechanical forms in which the principle of the invention may be used.

Figure 1 is a front elevation of the device; Fig. 2 is a side elevation of the same; Fig. 3 is a central section on the line 3—3 in Fig. 2 and Fig. 4 is a side view of one of the serrated engaging disks.

The general features of the construction are best seen in Fig. 1, there being a suitable support 1 having at its upper end a disk 2, the latter being provided on one face with a number of radial serrations 3. The disk 2 is centrally apertured and receives therein a bolt 4, the bolt 4 engaging a second centrally apertured and serrated disk 5 which is attached to a bar or bracket arm 6. A wing-nut 7 is provided for the purpose of loosening or tightening the adjustment of the bolt. It will be readily evident that the serrated engaging faces on the disk will be liable to be broken at every adjustment unless some means are provided for cushioning the pressure between these two disks and for taking the strain off the small teeth on each face. I

have accordingly interposed washers or disks 9, of readily compressible material, between the two engaging faces on the disks 2 and 5 and these washers 9 are compressed upon engagement of the two disks, the serrations on each engaging the washers and transmitting pressure to the other teeth on the adjacent disk. The serrations on the two disks are, however, never in contact and the device is therefore not liable to be broken during engagement. Furthermore, between the washer 8 which is placed about the bolt between the disks and the wing-nut, and the adjacent disk is another washer 10 also of readily compressible material which prevents any injury to the glass disk from the iron washer on the wing-nut. Similarly between the head of the bolt and the adjacent disk is another washer 11 of the same material for the same purpose. By so constructing the bracket it is possible to make the same of fragile material such as glass with scarcely any danger of breakage.

The functions of the present washer are entirely different from the functions performed by articles usually meant by this work. The present washers may be formed of fiber, paper, card board or the like and being thin and readily compressible are capable of transmitting the pressure of the serrations or teeth on each disk to the other. The use of this type of washers has made it possible to construct brackets of the type shown of glass which has been greatly desired for certain uses.

Other modes of applying the principle of my invention may be employed instead of the one explained, change being made as regards the mechanism herein disclosed, provided the means stated by any of the following claims or the equivalent of such stated means be employed.

I therefore particularly point out and distinctly claim as my invention:—

1. In a bracket, the combination of a support, a disk of fragile material attached to said support and having one face roughened, an arm, a second disk also of fragile material attached to said arm and having one roughened face, a disk of readily compressible material interposed between such serrated faces of said first-named disks, and means adapted to detachably clamp said two first-named disks in engagement.

2. In a bracket, the combination of a sup-

port, a disk of fragile material attached to
said support and having one serrated face,
an arm, a second disk also of fragile mate-
rial attached to said arm and having one
5 serrated face, a disk of readily compres-
sible material interposed between such ser-
rated faces of said two first-named disks,
and means adapted to detachably clamp said
two first-named disks in engagement.
10 3. In a bracket, the combination of a sup-
port, a disk of fragile material attached to
said support and having one serrated face,
an arm, a second disk also of fragile mate-
rial attached to said arm and having one
15 serrated face, a disk of readily compressible

material interposed between such serrated
faces of said two first named disks, said two
fragile disks having central apertures, a
bolt engaging in such apertures, a nut
adapted to engage on said bolt against one 20
of said disks, and other disks of readily com-
pressible material interposed between said
nut and the adjacent disk and between the
head of said bolt and the adjacent disk.

Signed by me, this 2 day of Sept., 1913. 25

WALLACE S. GRAHAM.

Attested by—

SUSAN HOLDERBY,
L. B. MARTIN.