

No. 784,232.

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R. N. SCHALKENBACH.
ASTRAGAL BRACKET.
APPLICATION FILED JULY 5, 1904.

Fig: 1.

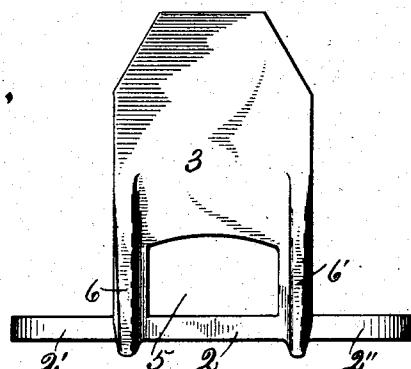


Fig: 2.

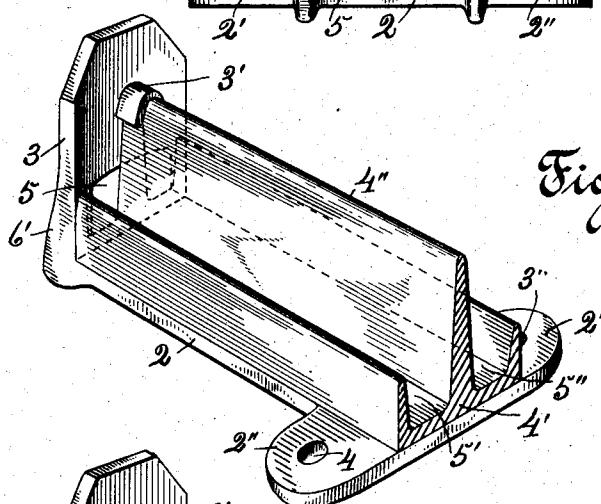
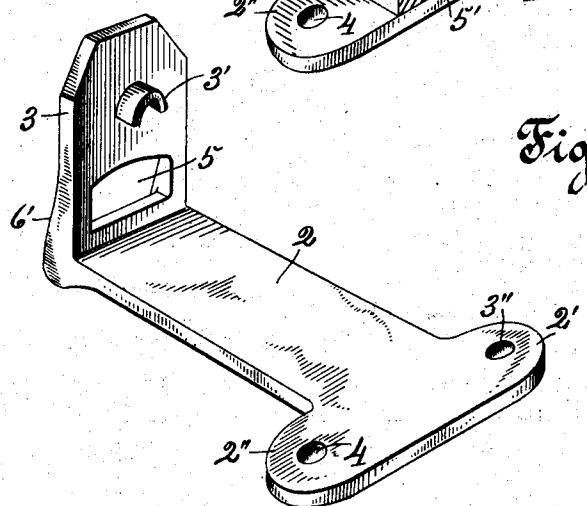


Fig: 3.



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ASTRAGAL BRACKET.

SPECIFICATION forming part of Letters Patent No. 784,232, dated March 7, 1905.

Application filed July 5, 1904. Serial No. 215,416.

To all whom it may concern:

Be it known that I, ROBERT N. SCHALKENBACH, a citizen of the United States, and a resident of Jersey City, in the county of Hudson and State of New Jersey, have invented certain new and useful Improvements in Astragal Brackets, which improvements are fully set forth in the following specification.

This invention relates to improvements in devices of that class employed for retaining and finishing purposes at the terminals of astragals in glazed structures, the same being commonly known as "astragal brackets."

The object of this invention is to provide an astragal bracket which shall be simple and inexpensive as regards construction, durable, efficient, and reliable in operation, which shall insure marked convenience to the user in applying the same to practical purposes, and which shall possess certain well-defined advantages over prior analogous constructions.

The invention consists in the novel disposition and relative arrangement of the various features of the device whereby the attainment of the foregoing object is rendered practicable in certain combinations and in certain details of construction, all of which will be specifically referred to hereinafter and set forth in the appended claims.

The invention is clearly illustrated in the accompanying drawings, wherein similar reference-numerals denote corresponding parts throughout the several views.

In said drawings, Figure 1 is a front elevation of an astragal bracket constructed in accordance with my invention. Fig. 2 is a perspective view of said bracket, a portion of an astragal being shown in connection therewith to more clearly disclose the practical application thereof. Fig. 3 is a view similar to Fig. 2, the astragal being removed.

In a general sense my improved bracket comprises a base, an upright member conjoined with said base, and a clip conjoined with said upright member at the inner face thereof, said upright member having an opening at its lower portion, and said clip being adapted to engage an astragal away from the bottom portion thereof and check any displacing movement of said astragal with respect to said

bracket, or vice versa, save longitudinally in one direction.

Further, my improved bracket comprises a base having laterally-projecting tongues at the opposite side edges thereof and whereby the operation of permanently locating or placing said bracket for service is materially facilitated.

Having reference to the accompanying drawings, as there shown my improved bracket embodies a base 2, provided with laterally-projecting tongues 2' 2" at the opposite side edges thereof, an upright member 3, conjoined with said base at one end thereof, and a clip 3', conjoined with said upright member at the rear face thereof. Tongue 2' has an opening 3", and tongue 2" has a like opening 4, the openings 3" 4 serving to permit the use of any improved fasteners, as nails or screws, in the operation of permanently adjusting the bracket for service.

4' denotes a portion of an astragal having a central vertical web 4".

It will be observed that under normal conditions the tongues 2' 2" project each laterally beyond the adjacent side edge of said astragal, thus allowing the bracket as a whole to be readily secured in position for service, as by means of fasteners penetrating said tongues by way of the openings therein, and it will further be observed that the clip 3' is adapted to engage for retaining purposes the astragal 4' away from the base thereof, the said clip being here shown as projecting rearwardly away from the member 3, as bowed upwardly or arched, and as adapted to take over and straddle the adjacent segment of the upper portion of the web 4".

The upright member 3 has an opening 5 at its lower portion, this being provided to permit the escape of water of condensation from the channel or channels of the astragal, the said opening in this instance being of sufficient width to accommodate both of the channels 5' 5" with which the astragal 4' is provided.

Keeping the width of the member 3 within proper limits and at the same time providing the member 3 with an opening 5 of adequate width ordinarily results in weakening the

member 3 at the respective sides of the opening 5, and to overcome this defect I provide the member 3 adjacent to the opposite sides of the opening 5 with vertical face-ribs 6 6', 5 these ribs being most advantageously arranged at the front face of the member 3.

Any suitable material may be employed in producing the device as a whole, and the same may be formed by means of appropriate dies 10 and pressure or by the process of casting. In any event I prefer that the base 2, upright member 3, and clip 3' be formed integral.

The angularity of the device is such as to insure a desirable finish for the astragal-terminal, and at the same time the operation of 15 relatively adjusting the bracket and astragal is materially simplified.

With prior analogous brackets it has been the practice to first determine as nearly as 20 practicable the point at which the bracket should be located for service and thereafter adjust the astragal to such permanently-located bracket; but under such conditions it not rarely happens that it becomes necessary

25 to unfasten the bracket from the beam or other supporting part to which it is secured and relocate the bracket in order to insure proper alinement or adjustment of the astragal with respect thereto. With my improved bracket, however, it is only necessary 30 to apply the same to the astragal, locate the bracket while thus applied to the astragal, and thereafter fasten the bracket in position, the bracket accordingly definitely finding its 35 proper seat, and further adjustment or rearrangement thereof is obviated.

It will be seen that my improved bracket is particularly well adapted for the purposes for which it is intended and, further, that the 40 same may be modified to some extent without materially departing from the spirit and principle of my invention.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. A device of the class herein described comprising a base and an upright member conjoined with said base, said upright member having an upwardly-bowed or arched clip 50 at the rear face thereof, substantially as herein specified.

2. A device of the class herein described comprising a base having laterally-projecting tongues at the opposite side edges thereof, and 55 an upright member conjoined with said base, said member having at the rear face thereof a rearwardly-projecting clip, substantially as herein specified.

3. A device of the class herein described 60 comprising a base having laterally-projecting

tongues at the opposite side edges thereof, and an upright member conjoined with said base, said member having an opening at the lower portion thereof and a rearwardly-projecting clip at the rear face thereof, substantially as 65 herein specified.

4. A device of the class herein described comprising a base having laterally-projecting tongues at the opposite side edges thereof, and an upright member conjoined with said base, 70 said member having an opening at the lower portion thereof, a rearwardly-projecting clip at the rear face thereof, and vertical webs, one at each side of said opening, substantially as herein specified. 75

5. A device of the class herein described comprising a base and an upright member conjoined with said base, said member having an opening at the lower portion thereof and vertical webs, one at each side of said opening, substantially as herein specified. 80

6. In combination with an astragal, a bracket comprising a base and an upright member, the latter having at its rear face a

clip adapted to engage said astragal away from 85 the bottom portion thereof, and having an opening to permit the escape of water of condensation flowing from said astragal, substantially as herein specified.

7. In combination with an astragal, a 90 bracket comprising a base having tongues at the opposite side edges thereof, and an upright member conjoined with said base, said member having a rearwardly-projecting clip for engaging said astragal, and an opening to 95 permit the escape of water of condensation flowing from said astragal, said tongues projecting laterally each beyond the adjacent side of said astragal, substantially as herein specified. 100

8. In combination with an astragal having a vertical web, a bracket comprising a base having tongues at the opposite side edges thereof, and an upright member conjoined with said base, said member having an opening to permit the escape of water of condensation flowing from said astragal, an upwardly-bowed or arched clip at the rear face thereof, said clip being adapted to straddle the adjacent segment of the upper portion of said astragal 110 web, and having vertical webs, one at each side of said opening, the tongues aforesaid projecting each laterally beyond the adjacent side of said astragal, substantially as herein specified.

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