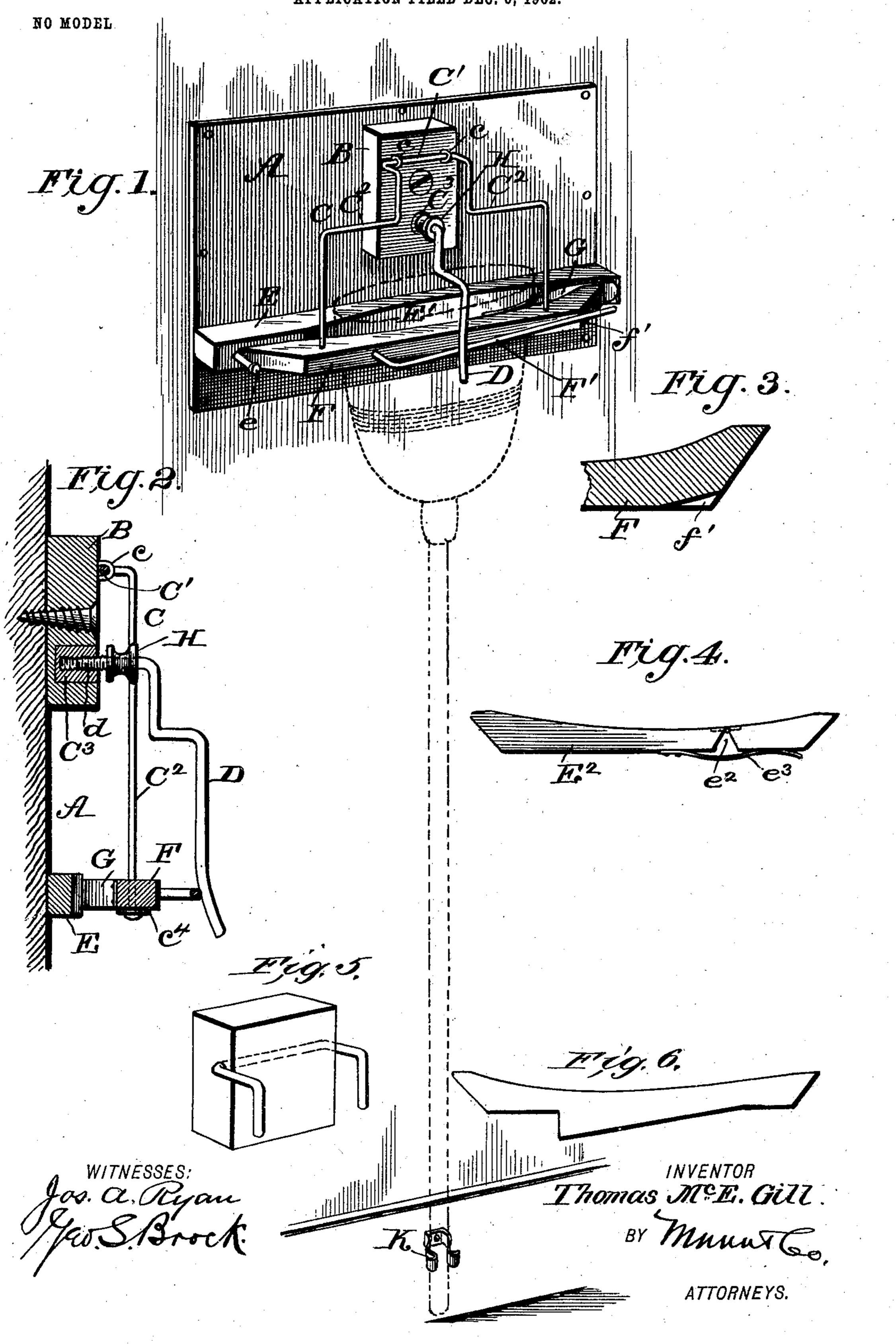
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COMBINED BROOM HEAD HOLDER AND SHAPER.

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COMBINED BROOM-HEAD HOLDER AND SHAPER.

SPECIFICATION forming part of Letters Patent No. 734,428, dated July 21, 1903.

Application filed December 6, 1902. Serial No. 134,136. (No model.)

To all whom it may concern:

Be it known that I, THOMAS MCE. GILL, a citizen of the United States; and a resident of Mexico, in the county of Audrain and State 5 of Missouri, have made certain new and useful Improvements in a Combined Broom-Head Holder and Shaper, of which the following is

a specification.

My invention relates to an improvement in 10 broom holders and supports designed to be attached to a wall or other locality, and has for its object to provide a device which will support and clamp a broom-head and at the same time restore and preserve the normal 15 shape of the broom-head. To these ends it consists in the novel construction, arrangement, and combination of the various parts, as will be hereinafter fully described, and pointed out in the claims.

In the drawings, Figure 1 is a perspective view showing my improvement attached to a wall. Fig. 2 is a central vertical section. Fig. 3 is a detail section of one end of upper clamp-bar. Fig. 4 is a view of a modification. 25 Fig. 5 is a perspective view of a modification. Fig. 6 is a view showing one form of clampbar having an integral incline projection.

Referring to the drawings, A designates a board secured to the wall of a room, or it may 30 designate the wall itself. To said board is secured the block B by means of a screw. A bail C, shaped as shown and consisting of the cranked cross-bar C' and the side arms C² C², is attached to said block B by the staples c35 or other suitable means so as to normally set away from and swing on said block, or said cross-bar C' may be passed through a hole bored through the block from side to side. Fitted in said block at a suitable point is a 40 plug or socket C3, which is internally threaded to receive the threaded end d of a bent lever D.

Secured to the board A a suitable distance below block B is a horizontal bar E, which I shall designate as the "lower" clamp-bar. 45 The outer face of said clamp-bar is concaved

at E', as shown in Fig. 1.

Mounted on the side arms C² C² of bail C is the upper clamp-bar F, which is prevented from sliding off said arms by washers c^4 , to 50 which the ends of said arms C²C² are riveted. Said clamp-bar F is somewhat shorter than the lower clamp-bar E and is provided on its

outer face with an inclined projection F', which may be integral with the clamp-bar F, or it may be an angular spring wire or plate 55 forming an inclined plane, the bent end of which is inserted or secured in clamp-bar F and the free end seated in a notch f', made in the outer face of clamp-bar. The inner face of upper clamp-bar F is concaved, so that 60 when the adjacent faces of the upper and lower clamp-bars are brought together an elliptical opening or space is left between them, which opening is designed to receive the head of a broom. The lower clamp-bar 65 E is made slightly longer at one end than the upper clamp-bar F and is provided with a projecting stop e, against which the end of the upper clamp-bar rests to prevent lateral movement of said upper clamp-bar in that 70 direction. To the innerface of clamp-bar F, at either or both ends, I secure a curved plate-spring G, which when tightly clamped against a broom-head will assume the elliptic shape of the opening between the two clamp- 75 bars, but when pressure is relieved will contract the size of said opening or space, and thus accommodate variations in shape and thickness of brooms. The end of said springs is embedded in or otherwise secured to the 80 clamp-bar.

The pivotal end of bent lever D is preferably passed through an ornamental flange or button H, and thus affords a better bearing for said pivotal end of the lever. In using 85 my device the lever D is moved to one side, and the bail carrying the upper clamp-bar is swung upwardly, carrying said clamp-bar away from the lower clamp-bar. The large end of broom-head is then placed against the lower 90 clamp-bar, the handle of the broom hanging downwardly, the upper clamp brought down against the broom-head, and the bent lever D swung across the outer face of upper clampbar, the lower free end of said lever riding 95 up the inclined plane of the projection F' and forcing the upper clamp-bar tightly against broom-head and holding it securely in place. The pressure put upon the upper clamp-bar may be adjusted and regulated by 100 screwing the pivotal end d of lever D inwardly or outwardly in socket or plug C3. To release the broom the lever D is moved to the side, sliding down the inclined surface of projec784,428

tion F', thus releasing the pressure on the upper clamp-bar. The tendency of upper clamp-bar to move sidewise by the side pressure of the lever D traveling up the inclined 5 projection is resisted and prevented by the stop e on lower clamp-bar E acting against the

end of said upper clamp-bar.

It is well known that broom-heads become worn and crushed down at one corner and to that a person when sweeping with such a broom almost invariably places the worn or bent portion nearest the person. Now with my device if after using a broom a small handrake or comb is used to straighten out the **15** straw at the end of a broom and the broomhead then placed between the clamp-bars and firmly clamped and left for some time the broom-head will be pressed into its normal shape, so that it will be practically im-20 possible to tell which was the worn or bent corner of the broom.

My device will be placed on the wall at such a height that the end of the handle of a broom will rest against the base or washboard of the 25 room, and to prevent the lateral displacement of the broom-handle by accident a springclamp K will be secured to said base or washboard and securely clamp the end of the handle.

Instead of placing the plate-spring on the 30 inner face of the clamp-bar a form of clampbar similar to that shown in Fig. 4 may be used. In this form the clamp-bar E² has a saw-kerf e^2 near one end, and the plate-spring e³ is secured at its end on one side of the 35 saw-kerf, thus forcing the shorter portion of the clamp-bar inwardly and whereby the said clamp-bar will accommodate and adjust itself to varying thicknesses and shapes of broomheads.

40 It will be seen that I produce a broom holder and support which performs the double office of support and a shaper to preserve and restore the shape of a broom-head, and thus lengthen the life and service of a broom.

Having thus described my invention, what I claim as new, and desire to secure by Letters

Patent, is—

1. A combined broom - head holder and shaper comprising a lower clamp-bar, a swing-50 ing upper clamp-bar adapted to rest on the face of a broom-head, and means for forcing said upper clamp-bar toward the lower clampbar and holding a broom-head between said clamp-bars and pressing said broom to its 55 normal shape.

2. A combined broom-head holder and shaper comprising a concaved lower clampbar secured to a suitable base, an upper clampbar, an inclined projection on the outer face

60 of said upper clamp-bar, a bail supporting the upper clamp-bar, and means for engaging the inclined projection on the upper clamp-bar and forcing the said clamp-bar toward the lower clamp-bar, whereby a broom-head will 65 be held between the said clamp-bars.

3. A combined broom-head holder and shaper comprising a concaved lower clamp-

bar secured to a suitable base, a concaved upper clamp-bar, a swinging bail secured to the base and supporting at its lower ends the upper clamp, an inclined projection on the outer face of the upper clamp-bar, a lever pivotally secured to the base and adapted to engage the inclined projection on the outer face of said upper clamp-bar, whereby when said lever is 75 swung to one side it will ride up the inclined projection and force the upper clamp-bar toward the lower clamp-bar and securely hold a broom-head inserted between the opposing concaved faces of the two clamp-bars.

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4. A combined broom - head holder and shaper comprising a base, a block secured to said base, a bail pivotally secured to said block, a lower clamp-bar secured to said base below the block, and having its outer face con-85 caved, a projecting stop secured to the outer face of the lower clamp-bar at or near one end thereof, an upper clamp-bar secured to the lower end of the bail, one end of said upper clamp-bar engaging the projecting stop on 90 the lower clamp-bar, a bent lever pivotally secured to the block adapted to engage at its free end with the inclined projection on the outer face of the upper clamp-bar, whereby when said lever is moved to one side the lower 95 end will ride up the inclined projection and force the upper clamp-bar toward the lower clamp-bar and securely clamp a broom-head inserted between said clamp-bars.

5. A combined broom-head holder and roo shaper comprising a base, a block secured to said base, a cranked bail pivotally secured to said block and provided with downwardlyprojecting side arms, an upper clamp-bar secured to the ends of said arms, a lower clamp- 105 bar secured to said base below the block, curved plate-springs secured at the ends of the upper clamp-bar on its inner face, and means for forcing the upper clamp-bar toward the lower clamp-bar, whereby the plate-springs 110 will engage and clamp a broom-head inserted between said clamp-bars, the plate-springs as-

suming the shape of the broom-head.

6. A combined broom-head holder and shaper comprising a base, a block secured to 115 said base, an internally-threaded socket seated in said block, a bent lever having one end threaded and engaging with said socket, a cranked bail pivotally secured to said block, a lower clamp-bar having a concaved outer 120 face and secured to said bail, an upper clampbar having its inner face concaved and secured to the lower end of the bail, an inclined projection on the outer face of said upper clamp-bar adapted to be engaged by the lower 125 free end of said bent lever, whereby when said lever is swung to one side it will engage and ride up the inclined projection on the upper clamp-bar and force said clamp-bar toward the lower clamp-bar and securely clamp the 130 head of a broom inserted between the said clamp-bars and press the said broom-head into its normal shape.

7. A combined broom-head holder and

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shaper comprising a base, a block secured to said base, a cranked bail pivotally secured to said block and provided with downwardlyprojecting side arms, an upper clamp-bar se-5 cured to the lower ends of said side arms, and having its inner face concaved, an inclined projection on the outer face of the upper clamp-bar, a lower clamp-bar having concaved outer face and of greater length than the to upper clamp-bar, a stop projecting from the outer face of the lower clamp-bar at or near one end and adapted to engage one end of the upper clamp-bar, a lever pivotally secured at one end to the block and adapted to engage 15 at its lower free end with the inclined projection on the outer face of upper clamp-bar, whereby when said lever is moved to one side its lower end will ride up the said inclined projection and force the upper clamp-bar to-20 ward the lower clamp-bar and securely hold a broom - head inserted between said clampbars, the opposing concaved faces of the clamp-bars restoring and preserving the normal shape of the broom-head.

8. A combined broom - head holder and shaper comprising a base, a lower clamp-bar

secured to said base, a bail pivotally secured to said base, an upper clamp-bar secured to the lower end of said bail, a spring-section secured to the end of said upper clamp-bar, 30 and means for forcing said upper bar toward the lower clamp-bar whereby a broom-head inserted between the clamp-bars will be securely held, the spring-section and clamp-bar assuming the shape of the broom-head.

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9. A combined broom - head holder and shaper comprising a base, a lower clamp-bar secured to said base, an upper clamp-bar, an inclined spring projection on the outer face of said upper clamp-bar, a bail pivotally sequred to said base and supporting at its lower ends said upper clamp-bar, and a lever having one end pivotally secured to the base and its free end adapted to engage the inclined projection on the face of the upper clamp-bar, 45 whereby the upper clamp-bar may be forced toward the lower clamp-bar and clamp, a broom-head between the said bars.

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Witnesses:
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Wallace Dearing.