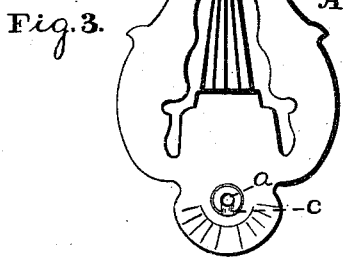
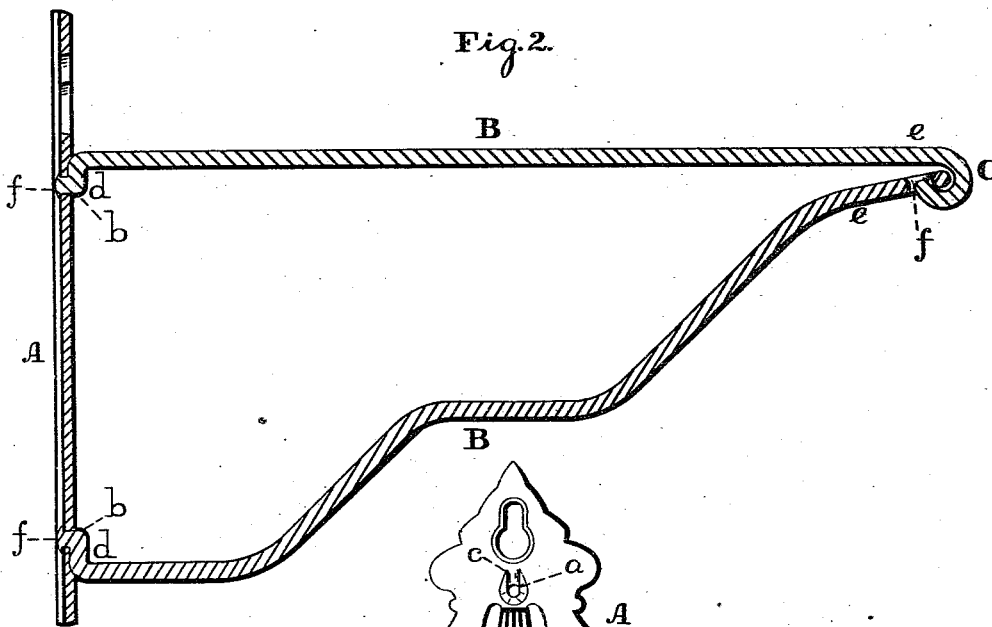
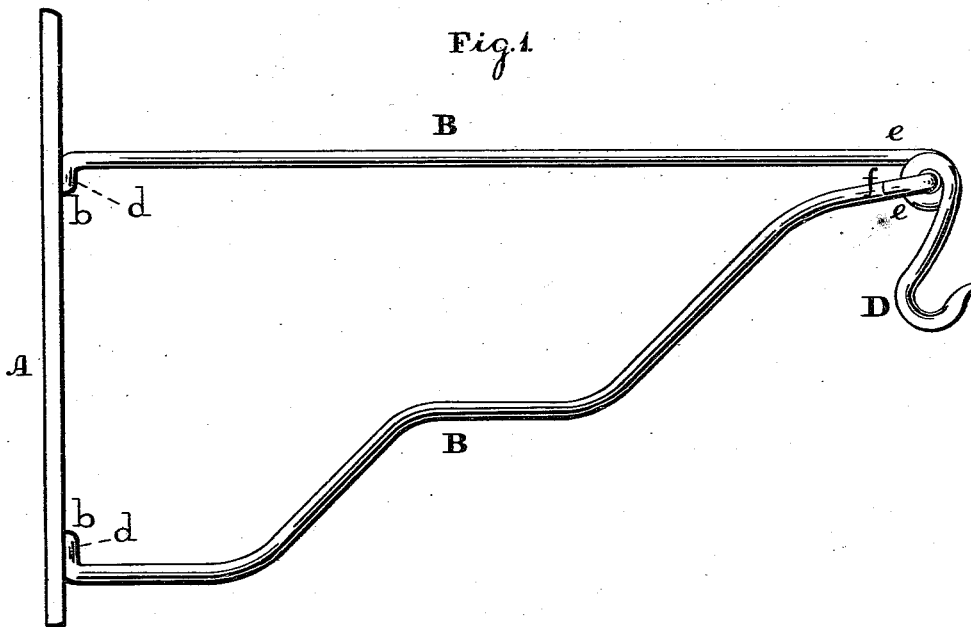


J. COMLY.
Bird-Cage Hook.

No. 161,206.

Patented March 23, 1875.



Witnesses:
L. F. Brous,
Ac. P. Grant.

Inventor:
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Atty.

UNITED STATES PATENT OFFICE.

JAMES COMLY, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO FEIGL,
STULB & CO., OF SAME PLACE.

IMPROVEMENT IN BIRD-CAGE HOOKS.

Specification forming part of Letters Patent No. 161,206, dated March 23, 1875; application filed
January 15, 1875.

To all whom it may concern:

Be it known that I, JAMES COMLY, of the city and county of Philadelphia, and State of Pennsylvania, have invented a new and useful Improvement in Brackets; and I do hereby declare the following to be a clear and exact description of the nature thereof, sufficient to enable others skilled in the art to which my invention appertains to fully understand, make, and use the same, reference being had to the accompanying drawings making part of this specification, in which—

Figure 1 is a side view of the device embodying my invention. Fig. 2 is a central longitudinal vertical section thereof. Fig. 3 is a front view of the back or supporting plate.

Similar letters of reference indicate corresponding parts in the several figures.

It is well known that in brackets the connection between the wire and back plate is weak, and soon loosens, whereby the wire sways and sags, thus becoming unreliable and useless.

My invention is designed to remedy this defect; and it consists in grooves in the back or supporting plate, and bends in the wire fitted into said grooves, the ends of the wire entering openings in the plate and secured therein. It also consists in one wire continued into an eye, with which locks the end of the other wire, and further continued into a hook.

Referring to the drawings, A represents the back or supporting plate, and B the wires. In the plate A are formed openings *a a*, through which are passed the inner ends *b b* of the wires B, and on the front face of the plate, adjacent to said opening, are grooves *c c*, which extend vertically, respectively, above and below said openings, as most readily seen in Fig. 3. The wires B, near their terminations or ends *b b*, are bent, as at *d*, at an angle to the line of the longitudinal direction of the wires, so as to project toward each other and readily rest in the grooves *c c*. The extreme portion of the ends *b* of the wires are now headed, as at *f*, against the rear face of the plate A, whereby, when the outer ends *e* of the wires

are united, the combined action of the union of said outer ends of the wires with each other, and that of the inner ends with plate A, produces a firm and reliable bracket. The heads *f* of the ends *b* prevent movement of the wire toward the front face of the plate, and the bends *d* thereof prevent movement toward the rear. Said bends, resting in the grooves *c*, also prevent lateral displacement or movement of the wires. Moreover, the vertical strain on the wires at their points of connection with the plate A is largely diffused, since the bends *d* increase the surface of connection between the wires and plate, and thus also increase the strength of the bracket. The end *e* of the upper wire is continued into an eye, C, which engages with a hook or eye, *f*, on the end *e* of the lower wire. The upper wire is then continued beyond the eye into a hook, D, to which may be attached the bird-cage, basket, or other article to be suspended from the bracket.

It will now be seen that the ends *e* of the two wires are firmly connected, whereby there is provided additional strength to the bracket. The absence of joints between the hook D and wire B renders the hook reliable, while the connection between the two wires at the ends *e* is durable and firm in vertical and horizontal or lateral directions.

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

1. The plate A, with openings *a* and grooves *c*, in combination with the wires B, entering the openings *a* and secured therein, and formed with bends *d*, entering the grooves *c*, substantially as and for the purpose set forth.

2. The combination, with one wire formed with the hook or eye *e*, of the other wire continued into an eye, C, and hook D, and operating as set forth.

JAMES COMLY.

Witnesses:

JOHN A. WIEDERSHEIM,
A. P. GRANT.