No. 897,210. PATENTED AUG. 25, 1908.

J. KRIDLER.

ATTACHMENT FOR STICKER HEADS.

APPLICATION FILED NOV. 16, 1907.

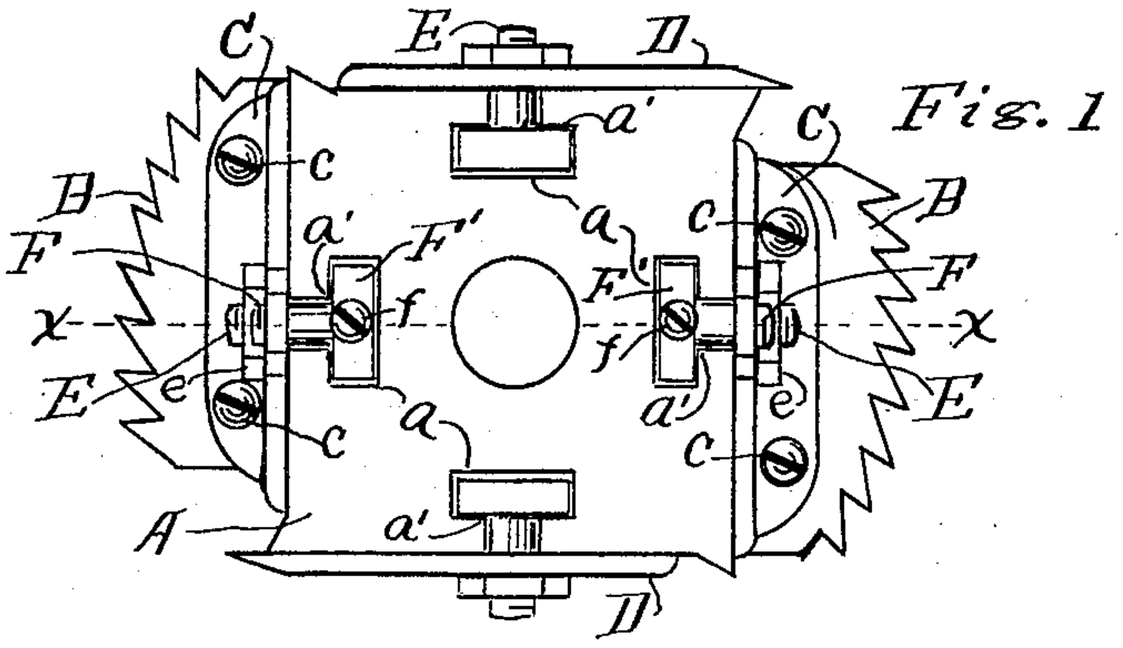

Fig. 1

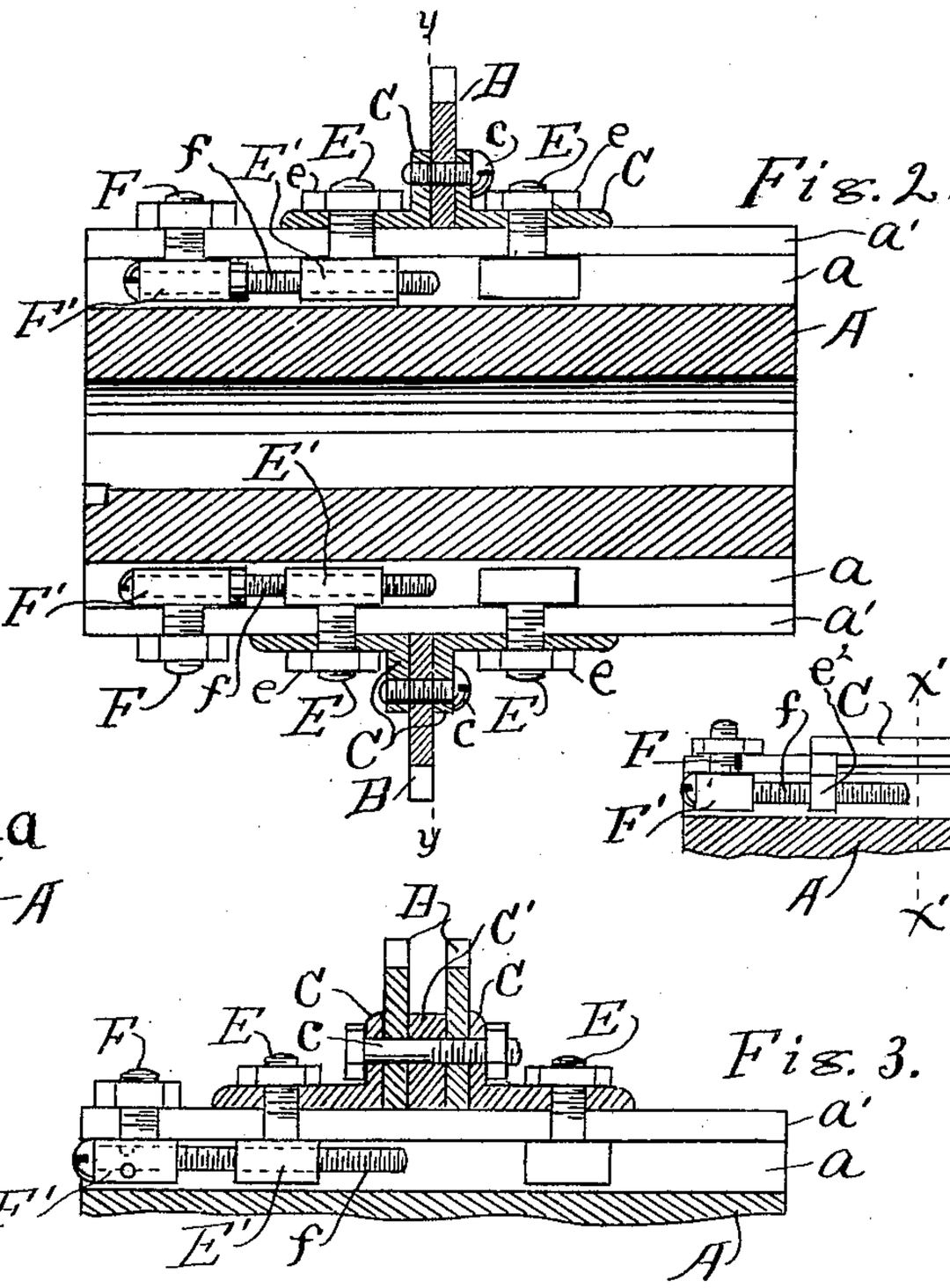

Fig. 2

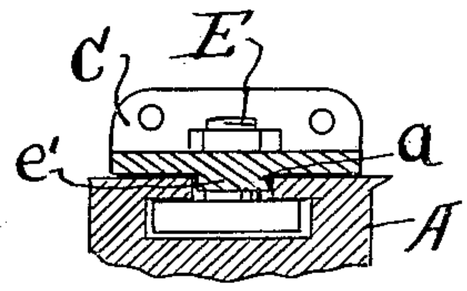

Fig. 4.

Fig. 5.

Fig. 3.

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UNITED STATES PATENT OFFICE.

JOHN KRIDLER, OF GRAND RAPIDS, MICHIGAN, ASSIGNOR OF ONE-HALF TO FRANK W. BUSE, OF GRAND RAPIDS, MICHIGAN, AND ONE-HALF TO HOMER KRIDLER, OF CALEDONIA, MICHIGAN.

ATTACHMENT FOR STICKER-HEADS.

No. 897,210. Specification of Letters Patent. Patented Aug. 25, 1908.

Application filed November 16, 1907. Serial No. 402,542.

To all whom it may concern:

Be it known that I, JOHN KRIDLER, a citizen of the United States, residing at Grand Rapids, in the county of Kent and State of Michigan, have invented certain new and useful Improvements in Attachments for Sticker-Heads, of which the following is a specification.

My invention relates to improvements in attachments to sticker heads, and its objects are: first, to provide a means whereby deep grooving may be done with a sticker, without the danger of tearing the timber or bending the sticker knives, and, second, to provide a means whereby the grooving implement or sticker knives may be readily adjusted longitudinal of the sticker head for readily shifting the position of the grooving tool or making the groove wider or narrower. I attain these objects by the mechanism illustrated in the accompanying drawing, in which

Figure 1 is an end elevation of a sticker head showing my attachment in place. Fig. 2 is a longitudinal section of the same on the line *x x* of Fig. 1. Fig. 3 is the same showing the manner of applying two grooving implements side by side. Fig. 4 is a cross section of the head and clamp on the line *x' x'* of Fig. 5 showing a rib on the lower surface of the clamp engaging the slot in the head, and Fig. 5 is a section of the sticker head showing said rib, and an actuating lug on the clamp.

Similar letters refer to similar parts throughout the several views.

A represents an ordinary sticker head for use upon wood stickers having slots *a* and grooves *a'* to form bearings for the heads of the securing bolts E. To complete my invention, I displace two of the ordinary sticker knives D, and supply, in lieu thereof, two cutters B B, having a saw tooth construction, and secure them between clamps C C by means of bolts *c c*, as shown. These clamps are provided with plates that are integral therewith, and stand at right angles with the cutters B so that they may be bolted to the sticker head A by means of the bolts E E, in the usual manner of securing the cutters D D to the sticker head A. For moving these plates or clamps and cutters longitudinal of the head and nicely adjusting them, I have placed anchor bolts F F near one end of the head, in the slot *a*, and secured them firmly to place by means of nuts or burs, as shown, and have formed a hole through the heads F' of these bolts, for the reception and free action of the screw *f*. I have, also, formed a like hole through the head E' of some of the bolts E, and screw threaded them so that when the screw *f* is made to revolve the screw thread thereon, meshing with the head E' will move the cutter in the desired direction longitudinally of the head, and when desiring to adjust the cutters it is simply necessary to loosen the nuts *e e* on the bolts E E and turn screw *f* as desired, and when the cutters are properly adjusted they may be, again, secured to place by screwing the nuts *e e* firmly to place on the bolts E E. When it is desired to use two groove forming implements or cutters, it is necessary to place a substantial support, as C', between them.

It will be readily understood that with the cutters B B in direct alinement a groove will be cut just the width of the thickness of the cutters, while if the cutters are shifted so that they are not in direct alinement the width of the groove will be increased accordingly, and this adjustment may be made to the minutest fraction of an inch; and the numerous teeth upon each of these cutters renders the work much more smooth and satisfactory, and the danger of splitting and slivering the stock less than with the ordinary grooving implements, even though these cutters are set to cut a groove the width of both cutters, as in Fig. 2, where the dotted line *y y* indicates the position that the same side of both cutters should assume to bring the cutters in direct alinement across the head.

In Figs. 4 and 5 I have shown the plate portion of the clamp C provided with a rib *e'* on its lower surface in position to engage the groove *a* in the sticker head and hold the clamps so firmly to place as to avert all danger of the cutters and clamps becoming displaced, and in Fig. 5 I have shown a lug e^2 projecting down from the rib *e'* at the end of the plate, and provided with a screw threaded aperture for the reception of the actuating screw *f* in lieu of making a like connection with one of the bolt heads on the bolts E, and I, really, like this construction best as the lug e^2 being integral with the plate of the clamp C renders it impossible for the lug to move when being actuated by the screw and cramp the bolt, as might occur with the use of a bolt passed loosely through the plate, as in Figs.

2 and 3. I have, also, shown, in Fig. 5, a large thin cutter for use upon a lower head of a sticker for splitting molding, when desired, after it has been acted upon by the upper head of the sticker and while it is passing through the machine in the process of making molding, &c.

It will be readily understood that these cutters and clamps may be readily interchanged with ordinary sticker knives, as no alteration, whatever, is made in the sticker head A, the only change being in the construction of the means for securing the cutters to the head.

There are two advantages attained by the use of the anchor bolts F F. First, it enables me to make the most minute adjustment of the cutters B upon an ordinary slotted sticker head, and, second, it enables me to so adjust the anchor bolts longitudinally of the sticker head as to be able to place the cutters B at any desired position upon the head without the necessity of using a long screw at *f*, whereas if the bolt heads F′ F′ were permanently secured to, or an integral part of the sticker heads it would require a long screw to adjust the cutters when at the opposite end of the sticker head.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent of the United States, is:

In combination with a sticker head having longitudinal grooves, saw formed cutters placed at right angles with the head, right angled clamps for securing the cutters to the head, bolts in the grooves for securing the clamps and cutters to the head, an anchor bolt secured in the groove and made adjustable longitudinally of the head, an adjusting screw passing through the head of the anchor bolt and arranged to act upon the clamp to adjust the cutters longitudinally of the head.

Signed at Grand Rapids Michigan November 12, 1907.

JOHN KRIDLER.

In presence of—
FRANK W. BUSE,
ITHIEL J. CILLEY.

Correction in Letters Patent No. 897,210.

It is hereby certified that Letters Patent No. 897,210, granted August 25, 1908, upon the application of John Kridler, of Grand Rapids, Michigan, for an improvement in "Attachments for Sticker-Heads," were erroneously issued to "Frank W. Buse and Homer Kridler," as assignees of one-half interest each in said invention; whereas the said Letters Patent should have been issued to the inventor, *John Kridler, and Homer Kridler, jointly*, said Homer Kridler being the assignee of one-half interest, as shown by the assignments of record in the Patent Office; and that the said Letters Patent should be read with this correction therein that the same may conform to the record of the case in the Patent Office.

Signed and sealed this 29th day of September, A. D., 1908.

[SEAL.]

E. B. MOORE,

Commisssoner of Patents.