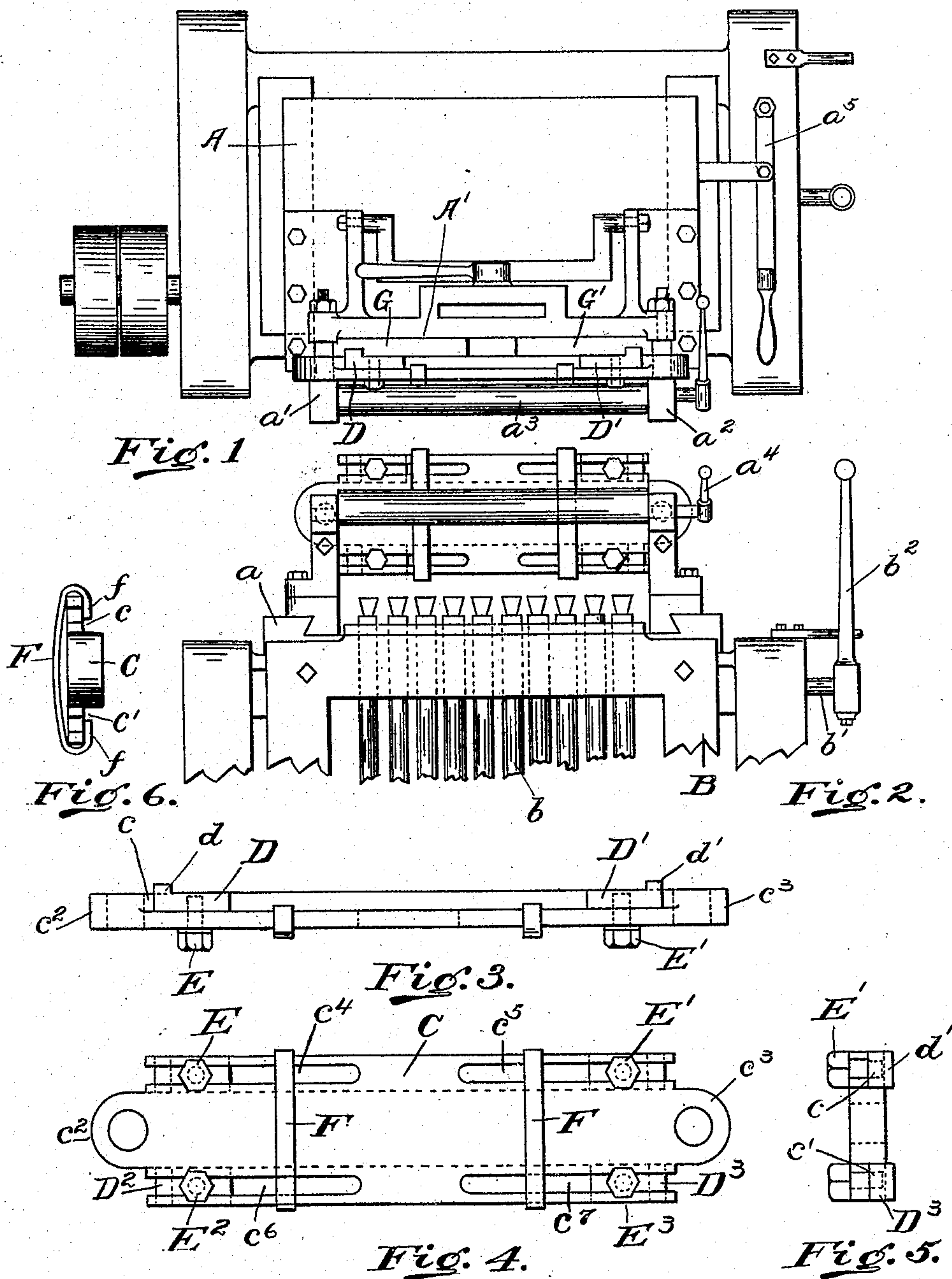


H. F. A. HOFF.
ATTACHMENT FOR DOVETAILING MACHINES.
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ATTACHMENT FOR DOVETAILING-MACHINES.

No. 908,099.

Specification of Letters Patent.

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To whom it may concern:

Be it known that, I, HERMAN F. A. HOFF, a citizen of the United States of America, and resident of Cincinnati, county of Hamilton, State of Ohio, have invented certain new and useful Improvements in Attachments for Dovetailing-Machines, of which the following is a specification.

The object of my invention is a means of securing blanks readily, firmly and accurately in position for being dove-tailed.

This object is attained by the means described in the specification and illustrated in the accompanying drawings, in which,

Figure 1 is a plan view of a dove-tailing machine provided with an attachment embodying my invention. Fig. 2 is a front elevation of the upper part of the machine showing my attachment in front elevation. Fig. 3 is a detail plan view of my attachment. Fig. 4 is a front elevation of the same. Fig. 5 is an end view of the same. Fig. 6 is a detail end view of the plate of my attachment showing the spring clips in place thereon.

I will describe the dove-tailing machine to an extent such as is necessary for a clear understanding of the operation of my attachment.

A, is the reciprocating head upon which the blanks to be operated upon are secured. This head reciprocates in ways, a , formed in the main body of the machine. The front face, A' , of the head is plain and has projecting journal bolts, a' , a^2 , in which an eccentric, a^3 , is journaled. The eccentric terminates at one end in a crank, a^4 , by means of which it may be rotated in the bolts, a' , a^2 . The reciprocation of the head, A, is controlled by a lever, a^5 . Upon the main body of the machine a vertically reciprocating frame, B, is mounted, in which the cutters, b , are carried. The movement of the frame, B, is controlled by means of a shaft, b' , and a lever arm, b^2 . The parts thus far described are of ordinary construction, and need not, therefore, be more specifically described.

I will now describe my attachment. Plate, C, with longitudinal ways, c , c' , along its upper and lower edges, has perforated ears, c^2 , c^3 , at its ends, which pass over the shanks of the journal bolts, a' , a^2 . Adjacent to the way, c , plate, C, has two longitudinal slots, c^4 , c^5 , and adjacent to the

way, c' , the plate has longitudinal slots, c^6 , c^7 . In way, c , two lug plates, D, D' , are adapted to slide. These lug plates have lugs, d , d' , respectively, and may be clamped in the ways by means of set-screws, E, E' , which pass through the slots, c^4 , c^5 , and engage the lug plates. Similar lug plates, D^2 , and D^3 , are mounted in the ways, c' , and are provided with similar set-screws, E^2 , and E^3 .

I will now describe the use of my attachment for holding the blanks, G, G' , which are to constitute the sides of the boxes. These blanks have longitudinal slots formed near their lower edges, into which the bottom of the box is to be inserted. These blanks, G, G' , are placed adjacent to the front face, A' , of the head, with the grooves in the blank, G, engaging the lugs of the lug-plates, D, D^2 , and the grooves in the blank, G' , engaging the lugs of the lug-plates, D' , D^3 , the lug-plates, D, D' , having been adjusted along the ways to accommodate the blanks. The eccentric, a^3 , is then thrown inward so as to clamp the blanks between the face, A' , of the head, and the plate, C, and lug-plates, D, D' , D^2 and D^3 . The eccentricity of the shaft, a^3 , is generally sufficient to accommodate various blanks, but I may utilize spring clips, F, for preventing looseness in the parts. These clips, F, are illustrated in Fig. 6, and consist simply of bars of spring metal having hooks, f , f , at their upper and lower edges for clamping over the plate, C.

What I claim is:

1. In a dove-tailing machine the combination of a head for holding the blanks to be operated upon, an eccentric mounted adjacent to the face of the head, a plate mounted between the eccentric and the face of the head and adapted to be moved by the eccentric towards said face, and sliding lug-plates mounted upon the plate adjacent to the face of the head.

2. In a dove-tailing machine the combination of a head for receiving the blanks to be operated upon, journal bolts projecting from the face of the head, an eccentric mounted in the journal-bolts, a plate mounted upon the shanks of the journal bolts between the eccentric and the face of the head and sliding plates mounted upon the plate adjacent to the face of the head.

3. In a dove-tailing machine the combination of a head for holding the blanks to be operated upon, an eccentric mounted adja-

cent to the face of the head, a plate mounted
between the eccentric and the face of the
head and adapted to be moved by the eccen-
tric towards said face, longitudinal ways
5 formed in the plate along its upper and
lower edges, and slots in the plate adjacent
to the ways, lug-plates mounted in the ways

upon the plate and set screws engaging the
slots and the lug-plates.

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