

J. E. LANGFORD.
COLUMN CLAMP.

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916,169.

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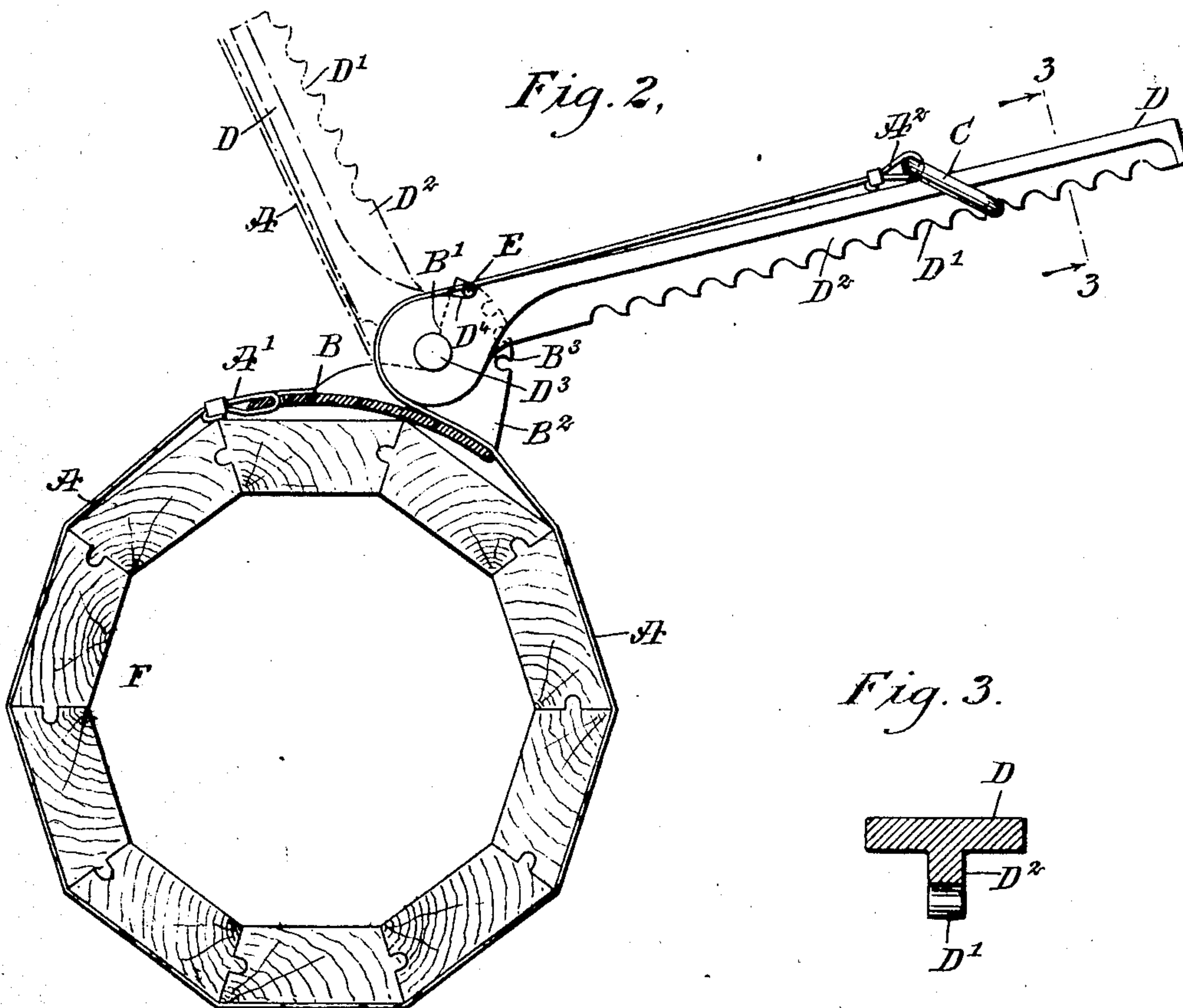
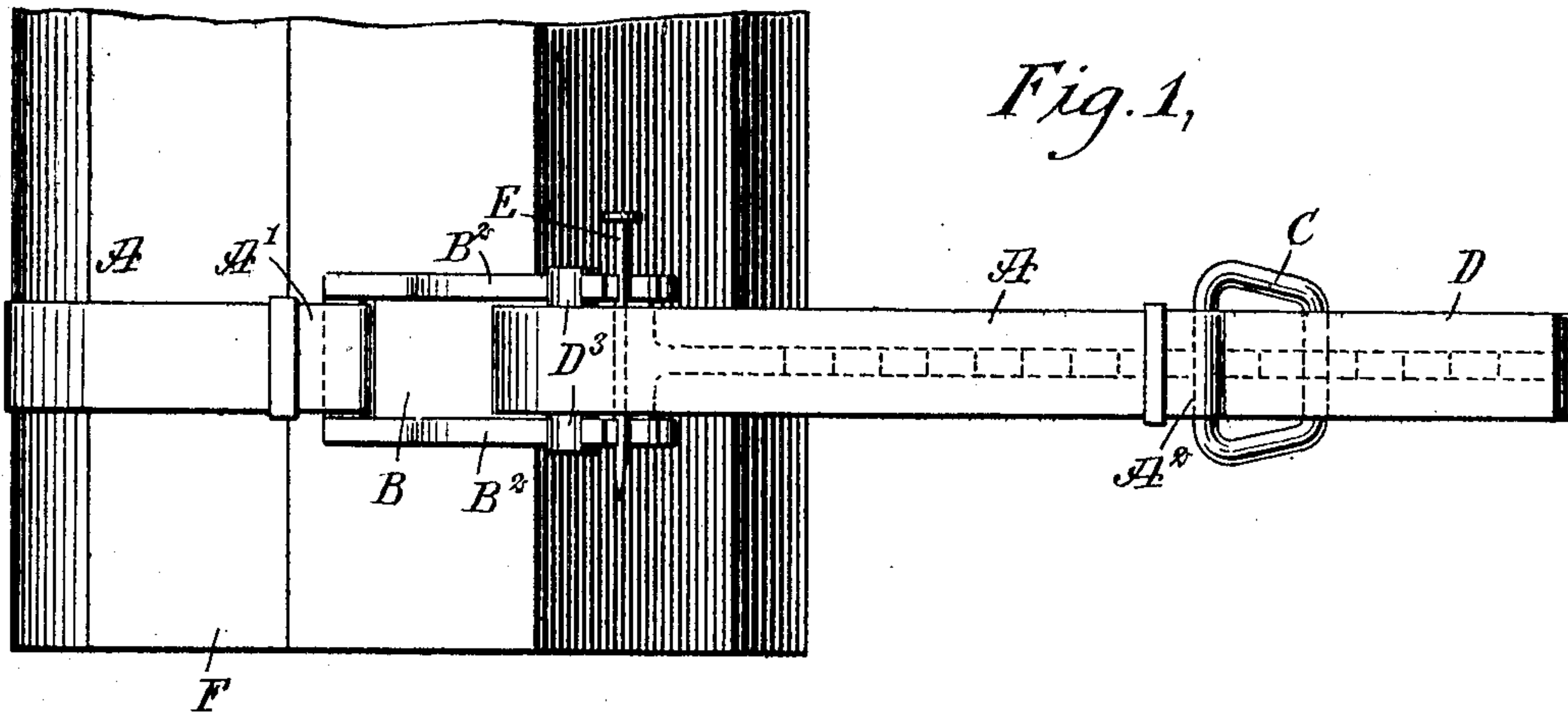
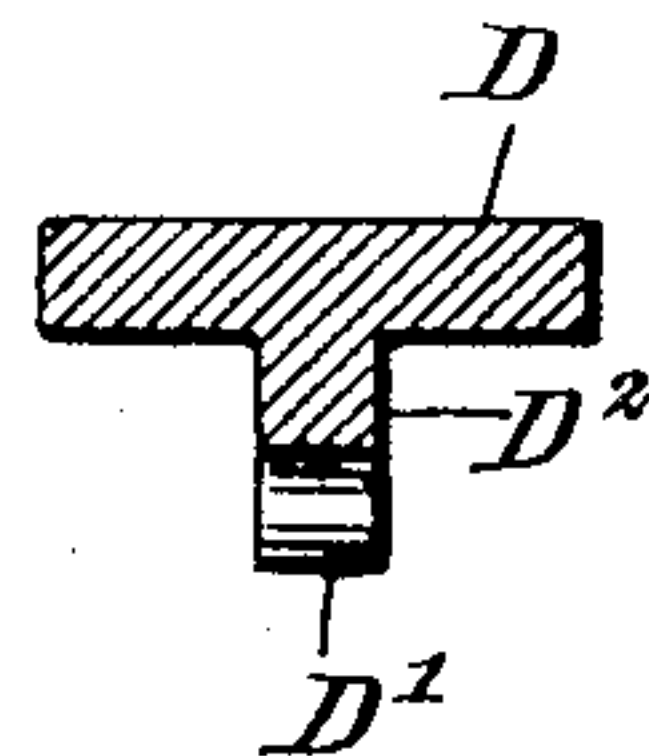


Fig. 3.



WITNESSES

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JOSEPH E. LANGFORD, OF OTTUMWA, IOWA.

COLUMN-CLAMP.

No. 916,169.

Specification of Letters Patent.

Patented March 23, 1909.

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To all whom it may concern:

Be it known that I, JOSEPH E. LANGFORD, a citizen of the United States, and a resident of Ottumwa, in the county of Wapello and State of Iowa, have invented a new and Improved Column-Clamp, of which the following is a full, clear, and exact description.

The invention relates to the manufacture of wooden stave columns, and its object is to provide a new and improved column clamp, arranged to securely bind the freshly glued staves or sides of the column together, until the glue has set and hardened and the column is ready to be turned in a lathe.

The invention consists of novel features and parts and combinations of the same, which will be more fully described herein-after and then pointed out in the claim.

A practical embodiment of the invention is represented in the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a plan view of the improvement as applied; Fig. 2 is a side elevation of the same, part being in section, and Fig. 3 is an enlarged cross section of the operating lever, the section being on the line 3—3 of Fig. 2.

A band A of bent iron or other material is connected at one end by a loop A' with a bearing plate B, and the other end of the band A is connected by a loop A² with a ring C, adapted to be hooked into one of a series of notches D' formed on a rib D², extending integrally on the under side of the operating lever D passing through the ring C. The operating lever D has its pivot pin D³ engaging an open bearing B' formed in the side arms B² of the bearing plate B, and the said lever D is adapted to be locked in place by a pin E, engaging the notches B³ formed in the segmental edges of the sides B², the pin E also engaging a recess D⁴ formed in the top edge of the lever D.

In using the device, the lever D is disconnected from the bearing plate B, and the latter is placed upon the peripheral face of the column F, and then the band A is passed around the column and the free end of the band is passed over the bearing plate B, and

the ring C is then slipped over the lever D and the latter is fitted with its pivot pin D³ upon the bearing B'. The operator now engages the ring C with one of the notches D¹ and then bears down on the lever D, so that the band A is drawn tight around the column F to securely hold or bind the staves or sides of the column together, to allow the freshly glued staves or sides to set and harden while the staves or sides are bound together by the clamp. It is understood that the band A passes around the fulcrum end of the lever D, as indicated in Fig. 2, and consequently when the lever D is swung downward the band A is drawn very tight, and when the desired position is reached the operator inserts the pin E, so as to hold the lever D against accidental return or upward swinging movement. Any desired number of such clamps may be used on one column.

The bearing plate B is preferably slightly curved, as indicated in Fig. 2, to bring the band A as close as possible to the peripheral face of the column F adjacent to the bearing plate B, as will be readily understood by reference to Fig. 2. After the staves or sides are fastened together and the glue has set, it is only necessary for the operator to remove the pin E and to swing the lever D back into an open position, to release the band A, and to allow of disconnecting the band from the column F, to permit of turning the column in a lathe after the clamp is removed. It will also be noticed that by connecting the ring C with any one of the notches D¹, the device can be used for columns of larger or smaller diameter.

The clamp shown and described is very simple and durable in construction, and can be cheaply manufactured and readily manipulated in the manner above described.

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

A column clamp comprising a flexible band for encircling the column, a bearing plate attached to one end of the band said bearing plate being provided with an open bearing and a notched segment, and a lever having a pivot pin for engaging the bearing, and having a recess near the pivot pin, said lever hav-

ing a longitudinal series of notches, and the
free end of the band being provided with a
ring for engaging one of the notches, and a
pin for engagement with the lever recess and
5 one of the notches on the segment for the
purpose set forth.

In testimony whereof I have signed my

name to this specification in the presence of
two subscribing witnesses.

JOSEPH E. LANGFORD.

Witnesses:

JAMES J. SMITH,

MOSS I. DORR.