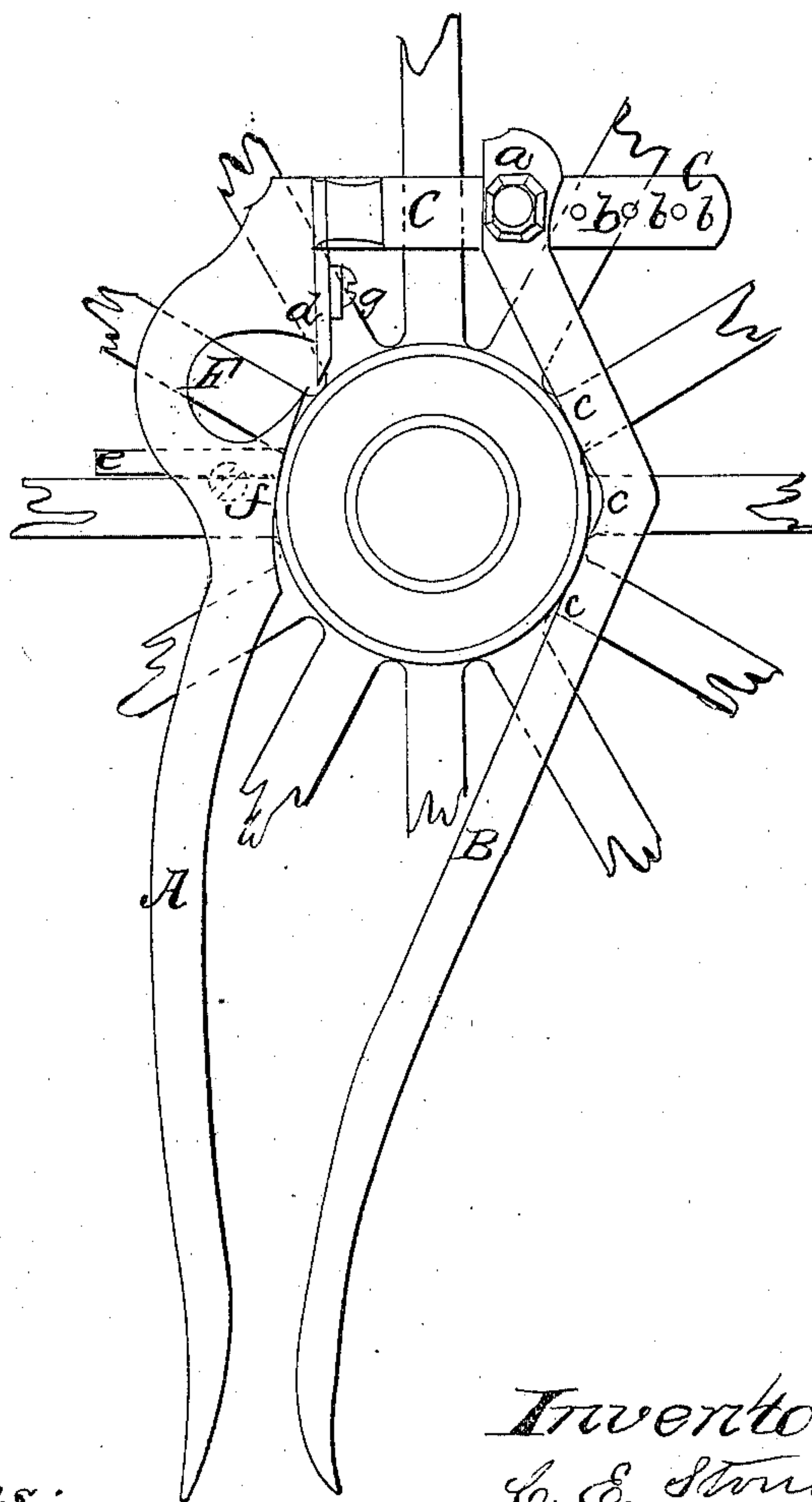


Stone & Herbert,

Boring Hubs.

N^o 79,925.

Patented July 14, 1868.



Witnesses:
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CHARLES E. STONE, OF AMESBURY, AND ALFRED HERBERT, OF SALISBURY,
MASSACHUSETTS.

Letters Patent No. 79,925, dated July 14, 1868.

IMPROVEMENT IN TOOL FOR FITTING BANDS ON HUBS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that we, CHARLES E. STONE, of Amesbury, and ALFRED HERBERT, of Salisbury, in the county of Essex, and State of Massachusetts, have invented a new and useful Improvement in Hub-Band Fitters; and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing, forming part of this specification, in which—

The drawing represents a side view of our invention, shown as applied in practice.

Similar letters of reference indicate like parts.

Our invention is an improvement upon a tool for fitting hub-bands, which has been in use for some years. Said tool consists of a single handle, recessed, and provided with two cutters arranged at right angles to each other. It was found difficult to execute work satisfactorily with this tool, however, for the reason that it was not provided with a clamping-device. The object of our invention is to remedy this defect by supplying a clamping-lever, by means of which the fitting of hub-bands is rendered easy.

Heretofore, hub-bands were fitted to the hub by chipping off a portion of the wood with a hammer and chisel, until the end of the hub was of the right perimeter to receive the band. This method was laborious, requiring both skill and time to accomplish the proper fitting of the band.

By our invention, the operation of chipping off the hub with a chisel is dispensed with, and a continuous shaving is pared from the hub by simply turning the wheel on its axle, and holding the tool in proper position upon the hub, as will hereinafter be duly set forth.

The invention consists of two handles, A and B, pivoted together by means of the arm C, forming part of the handle A, together with other devices perfecting the whole, and which will now be described.

The handle B is provided with a set-screw, *a*, which is screwed into any one of the several holes *b b b*, formed in the arm C, as shown, and, by means of this set-screw and the said holes, the handles are pivoted together, at suitable distances apart, to adapt the tool to different-sized hubs.

The handle B is formed with an angle or concave, as shown at *c c c*, for the purpose of conforming sufficiently to hubs of different sizes, and to bear upon the surfaces of the hubs at two points, and thereby be enabled to be held firmly in a fixed position against the hub during the operation of cutting or paring the same.

The handle A is formed with a recess, *E*, for the escape of the paring or shaving cut from the hub by the cutter *d*, bolted or otherwise affixed to the said handle, so that its cutting-edge shall project sufficiently to encounter the hub, as indicated in the drawing.

A marking-cutter *e* is fitted in a dove-tailed slot in the handle A, and presents its point to the hub to mark and cut a vertical incision into the hub, whereby the flat cutter *d* is enabled to operate more effectively in cutting a clean seat for the reception of the band.

The marking-cutter *e* is clamped in position by any suitable device, as the lateral set-screw, shown dotted at *f*.

The flat cutter is slotted to enable it to be set to cut more or less deeply, as required, and its set-screw, *g*, is within the slot.

In the operation of fitting the band, the tool is applied, as shown in the drawing. It is held by the handle, and the wheel revolved upon its axle until a sufficient thickness of wood has been cut off to enable the band to fit tightly upon the hub.

We are aware that a hub-band fitter, consisting of a single handle, recessed, and provided with two cutters arranged at right angles to each other, has been used before, but this we disclaim, as it forms no part of our invention.

Having thus described our invention, we claim as new, and desire to secure by Letters Patent—

The handle B, curved at *c c c*, and adjustably pivoted to the extension C of the handle A, by means of the set-screw *a* fitted into either one of a series of holes, *b b b*, formed in said arm C, substantially as and for the purpose herein shown and described.

CHARLES E. STONE,
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Witnesses:

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