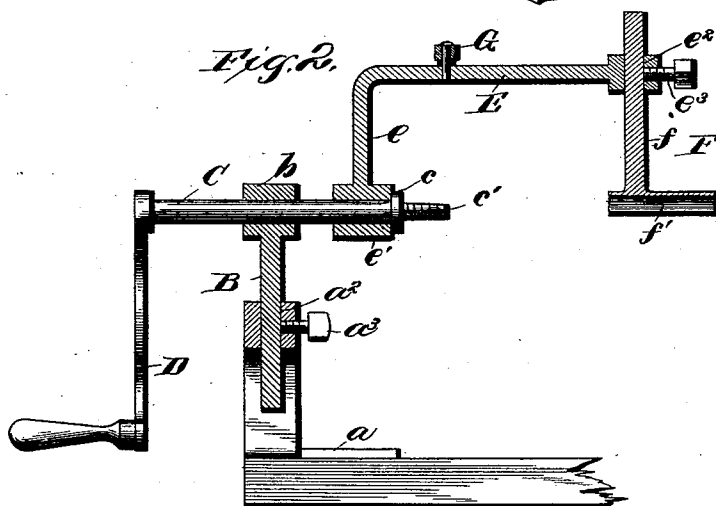
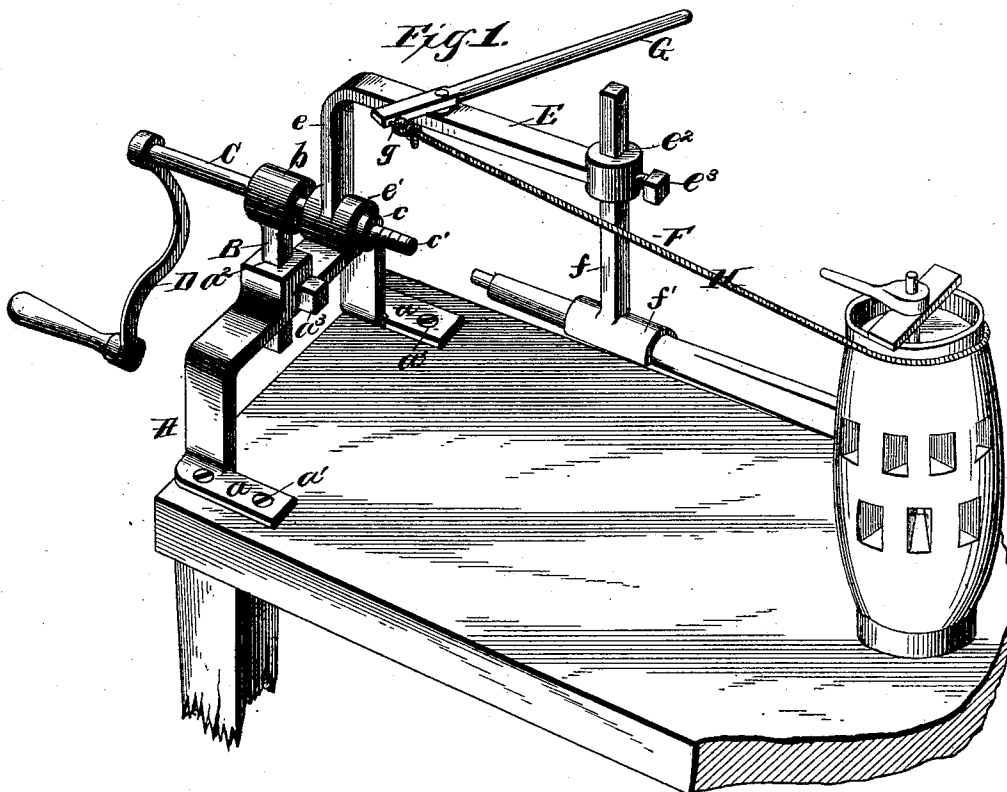


(No Model.)

A. GIDDENS.
TENONING MACHINE.

No. 475,447.

Patented May 24, 1892.



Witnesses

E. J. Wurdeman,

A. P. Moulthrop.

Inventor

A. Giddens.

By *his* Attorneys,

C. A. Snow & Co.

UNITED STATES PATENT OFFICE.

ABRAHAM GIDDENS, OF GYPSUM, KANSAS.

TENONING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 475,447, dated May 24, 1892.

Application filed September 2, 1891. Serial No. 404,547. (No model.)

To all whom it may concern:

Be it known that I, ABRAHAM GIDDENS, a citizen of the United States, residing at Gypsum, in the county of Saline and State of Kansas, have invented a new and useful Tenoning-Machine, of which the following is a specification.

This invention relates to tool feeders and gages, and, although being adapted for several uses, is especially designed to be used in wheel-wrighting; and it has for its object to provide a simple device of this character which may be easily and conveniently supported upon the edge of a work-bench, and, while carrying and operating the hollow auger and pointer for pointing the ends of the spokes of a wheel, at the same time provides ready means whereby the device is gaged to the spokes and rapidly feeds the tool to the end of the spoke.

With these and other objects in view the invention resides in the novel construction hereinafter more fully described, illustrated in the accompanying drawings, and specifically pointed out in the appended claims.

In the accompanying drawings, Figure 1 is a perspective view of a tool feeder and frame constructed in accordance with my invention and secured to the edge of a work-bench and connected with a portion of a wheel thereon. Fig. 2 is a longitudinal sectional view of the device.

Referring to the accompanying drawings, A represents an upwardly-curved or squared bracket provided with the flanged feet *a*, having a series of perforations *a'*, by means of which the said bracket may be secured at the desired distance to and from the edge of the work-bench. Centrally located in the arch of the bracket is the vertical squared perforation *a''*, in which is designed to work the laterally-located set-screw *a'''*, said squared perforation being designed to accommodate the squared shank B, secured therein at any height desired by means of the set-screw *a'''*, and said shank terminates at its upper end in a horizontal bearing *b*. Horizontally mounted in said bearing is the sliding and revolving spindle or shaft C, provided at its inner end with a retaining-collar *c* and screw-threaded end *c'*, to which the hollow augers or spoke-pointing devices are secured and turned by said shaft or spindle, the outer end of which is

provided with a crank-handle D, by means of which the said spindle or shaft may be readily rotated. A feeding-bracket E is provided with a downwardly-extending portion *e*, terminating at its lower end in a perforated box *e'*, within which works the revolving shaft and which is designed to be located upon said shaft directly behind and bearing against the retaining-collar thereon. From the downwardly-extending portion *e* of said feeding-bracket the same extends horizontally forward and terminates in an enlarged end having a vertical squared perforation *e''*, laterally working into which is the set-screw *e'''*, designed to bind and adjust the combined rest and gage F, which is provided with a squared shank *f*, adapted to take into said vertical squared perforation, and terminates at its lower end in a semicircular clamp *f'*, that conforms to the shape of the spokes and is designed to rest and slide thereon while the same are being pointed; but said gage may be also used to support the feeding-bracket over any other analogous object which is being operated upon.

Pivotaly mounted upon the horizontal arm of the feeding-bracket is the feeding-lever G, provided at one end with an eye *g*, to which the feeding-rope H is attached and is connected tightly with the hub of the wheel or other object which is being operated upon, and, as can be readily seen, by drawing on said lever and operating the revolving shaft carrying the hollow auger or other tool that the said tool will be readily fed onto the spoke or other object as the same is rotated by the box at the lower end of said feeding-bracket bearing behind the collar on the operating-shaft and drawing the shaft inward toward the object being operated upon.

By the adjustment of the gages and various parts of the device it can be readily seen that the same can be made to accommodate the object being turned and placed in a direct line with the tool used.

The construction and operation of the herein-described device is now thought to be apparent without further description.

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

1. In a tool-feeder, a supporting-bracket, a

vertically-adjustable gage and bearing mounted in said bracket, a sliding tool-operating shaft or spindle loosely mounted in said bearing and provided with a crank-handle, a screw-threaded tool-receiving end and a retaining-collar adjacent thereto, a forwardly-extending feeding-bracket provided with a depending perforated boxing engaging said shaft behind the collar thereon and with an enlarged end having a perforation therein, a vertically-adjustable rest and gage mounted in said squared perforation and conforming in shape to the object upon which the same rests and slides, and a feeding-lever pivotally mounted upon said feeding-bracket and connected with a suitable point of attachment to draw the feeding-bracket toward the object, substantially as set forth.

2. In a tool-feeder, a supporting-bracket, a vertically-adjustable gage and bearing mounted in said bracket, a sliding tool-operating shaft or spindle loosely mounted to slide in said bearing and provided with a crank-handle,

a screw-threaded tool-receiving end and a retaining-collar adjacent thereto, a forwardly-extending feeding-bracket provided with a depending perforated boxing engaging said shaft behind the collar thereon and with an enlarged end having a squared perforation therein, a vertically-adjustable rest and gage mounted in said squared perforation and provided with a semicircular clamp at its lower end and adapted to rest and slide upon the object being operated upon, and a feeding-lever pivotally mounted upon said feeding-bracket and connected with a suitable point of attachment to draw the feeding-bracket toward the object, substantially as set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

ABRAHAM GIDDENS.

Witnesses:

J. W. AMOS,
RICHARD SPENCER.