Peck & Gifford,

Making Barrels, &c.

No. 32,644. Patented June 25, 1861.

Fig. 1.

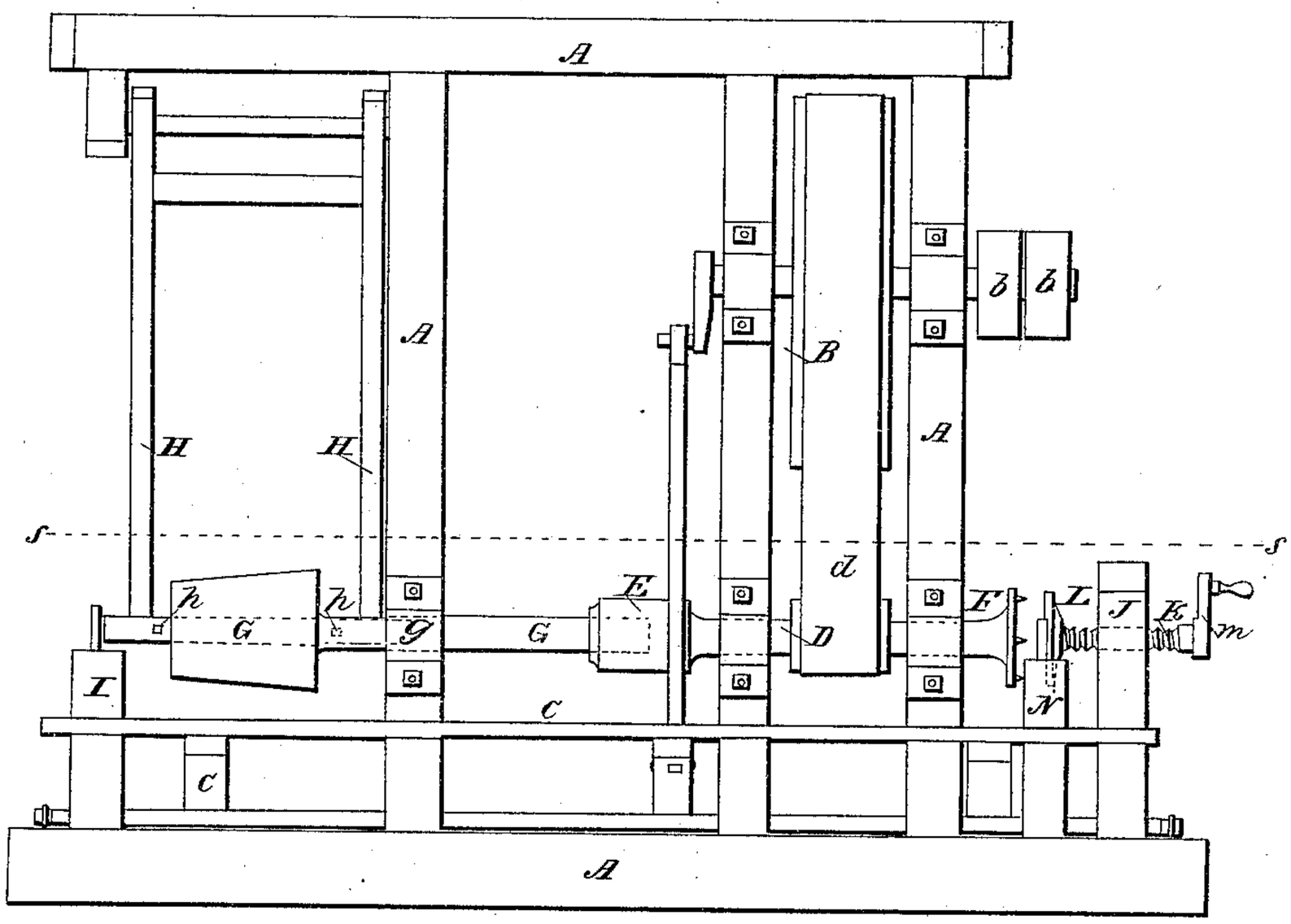
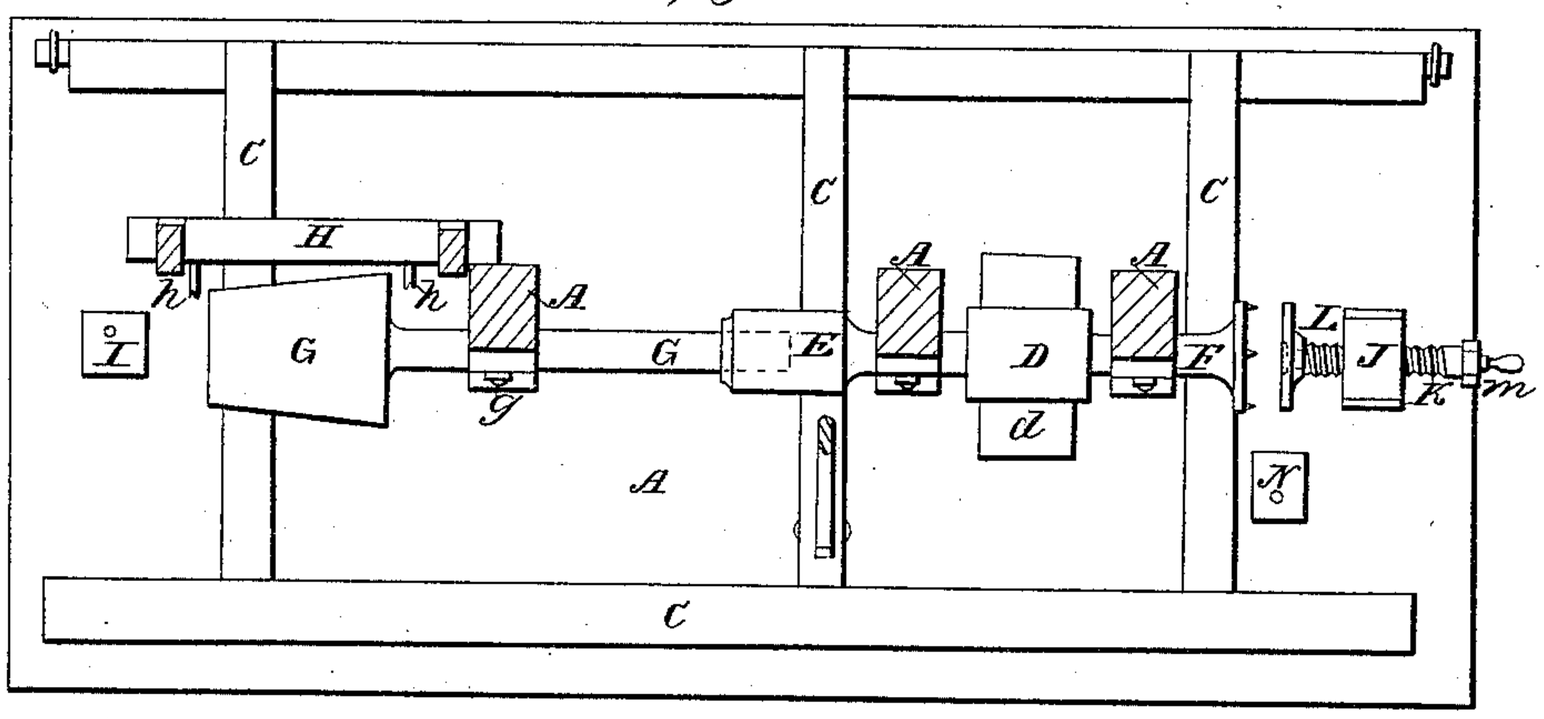


Fig. 2.



Witnesses:

Silvanus Gates.

E. Bartlett Dimick.

Inventors:

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UNITED STATES PATENT OFFICE.

R. H. PECK AND E. M. GIFFORD, OF WOLCOTT, VERMONT.

TUB AND PAIL MACHINE.

Specification of Letters Patent No. 32,644, dated June 25, 1861.

To all whom it may concern:

Be it known that we, ROYAL H. PECK and E. M. GIFFORD, of Wolcott, in the county of Lamoille and State of Vermont, have invented a certain new and useful Improvement in Tub or Pail Machinery; and we do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, in which—

Figure 1 is a front elevation, and Fig. 2 is a section through the line S, S, in Fig. 1.

Similar letters of reference indicate like parts in both figures.

The object of our invention is to provide a cheap and simple machine by which all the necessary operations of cutting a tub or pail to the proper length, trimming the ends, crozing it, and fitting the bottom thereto, may be performed, with accuracy and rapidity.

To enable others skilled in the art to make and use our invention we will proceed to describe its construction and operation by the aid of the drawings and the letters of reference marked thereon.

A is a frame work made of wood and of proper form to contain the several parts. B is a drum wheel hung therein and receiving motion from a treadle C or from a belt on the pulleys *b*, *b*.

D is an arbor or spindle, hung in the frame A carrying a socket E at one end, and a spurred disk F at the other. This arbor or spindle, receives a rapid rotary motion from the drum B by means of a belt *d*.

G is a mandrel fitted to the socket E, so as to be compelled to turn with the spindle D, and resting in a bearing *g* in the frame A. Its outer and unsupported end is of proper size and form to receive a tub or pail and hold it while undergoing the several operations.

H is a swinging frame supported in the main frame A, and carrying two knives *h*, *h*, at the proper distance apart to determine the length of the tub or pail.

I is a rest on which the tools necessary for finishing the ends of the staves may be placed for use.

In a standard J opposite the other end of D we place a screw spindle K carrying a loose disk L. The screw K may be rotated by means of the crank *m*, so as to bring the disk L, nearer to or farther from the spurred disk F on D, for the purpose of clamping a blank between the two and holding it, while the bottom for the tub or pail is being made therefrom.

N is a rest to support the necessary tools for forming the bottom.

The operation of our machine is as follows: The staves having been set up and hooped, the tub in that form is placed upon the mandrel G, which is caused to rotate rapidly by means of the treadle C, or other power transmitted through the drum B. The frame H being pressed down against the tub the knives *h*, *h*, cut off the ends to the proper length. A knife or hand tool of the proper form is then placed upon the rest I, and the ends trimmed to form the "chime." A crooked tool fitted for the purpose, is then placed in the corner of the frame H, and by swinging the later the "croze" is formed for the reception of the bottom. A blank or board of the proper size is then placed against the spurred disk F and the loose disk L is screwed firmly against it to hold it in place. The disk L being free to turn, the whole is rotated with the spindle D, and by means of suitable hand tools supported by the rest N, the blank is brought to the proper form and size for the bottom, when it is placed in the tub and the latter is done. It will be seen that the mandrel G and frame H with its knives *h*, *h*, having a fixed relation to each other the size of the tubs or pails made on one mandrel must all be the same, and a uniformity in capacity is thereby attained, which is desirable in pails, butter tubs, etc.

The mandrel G may be removed, and another one fitted to the socket E when a different sized article is desired; or it may be removed altogether, a dog placed in the socket E, and a dead center in the bearing *g* when the machine may be used as an ordinary turning lathe.

It will be seen that our invention performs by one cheap and simple machine, that which has heretofore required several distinct machines.

Having now fully described our invention

what we claim as new therein, and desire to secure by Letters Patent, is:

The arrangement of the mandrel G, the swinging frame H, carrying the knives *h* and *h*, the clamp F, L, and the rests I and N substantially as and for the purpose herein set forth.

In testimony whereof we have hereunto set our hands in the presence of two subscribing witnesses.

ROYAL H. PECK.
E. M. GIFFORD.

Witnesses:
SILOAM GATES,
E. BARTLETT DIMICK.