

(No Model.)

T. A. COOK.

MACHINE FOR HOOPING AND HEADING KEGS.

No. 482,079.

Patented Sept. 6, 1892.

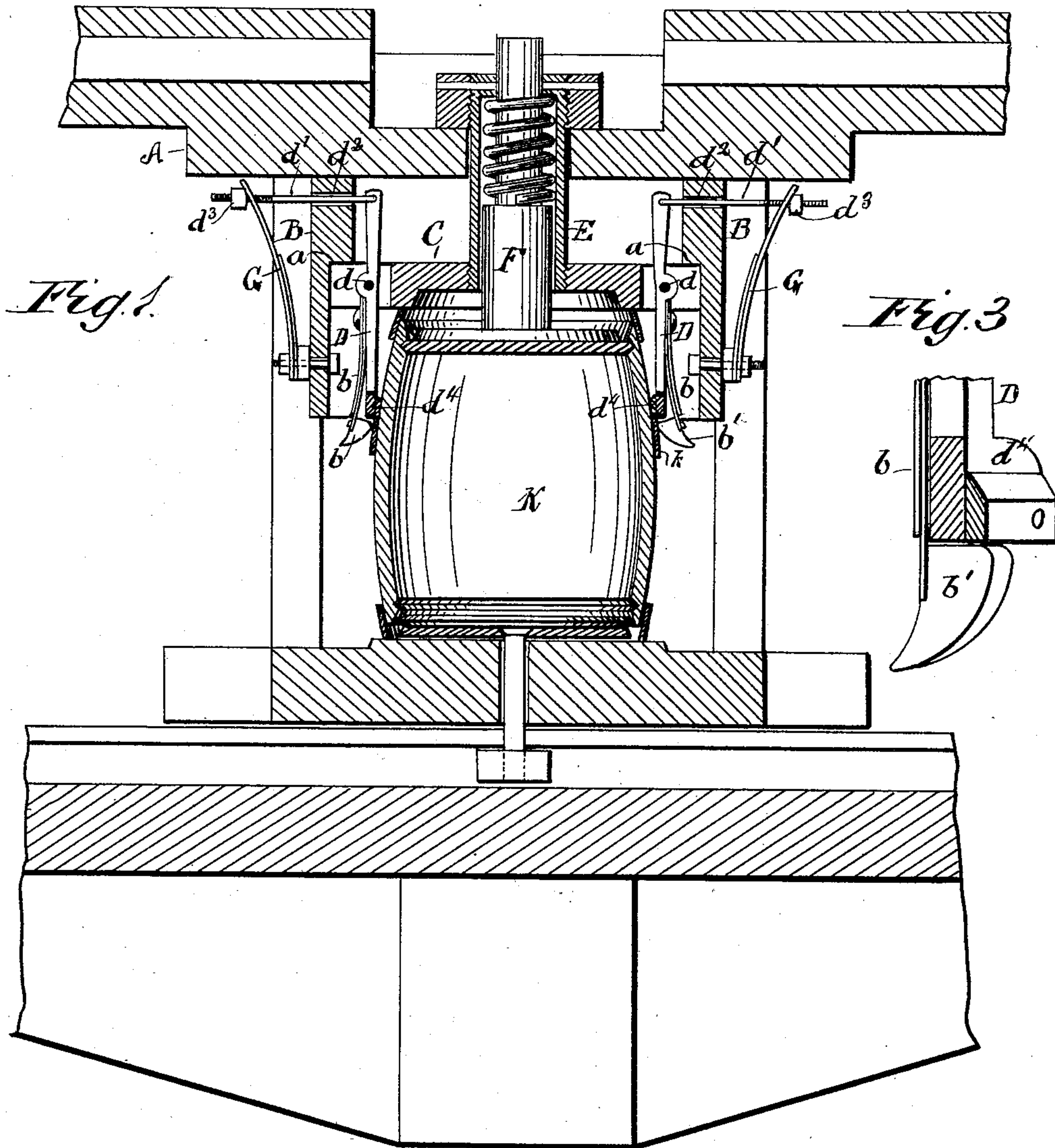


Fig. 3

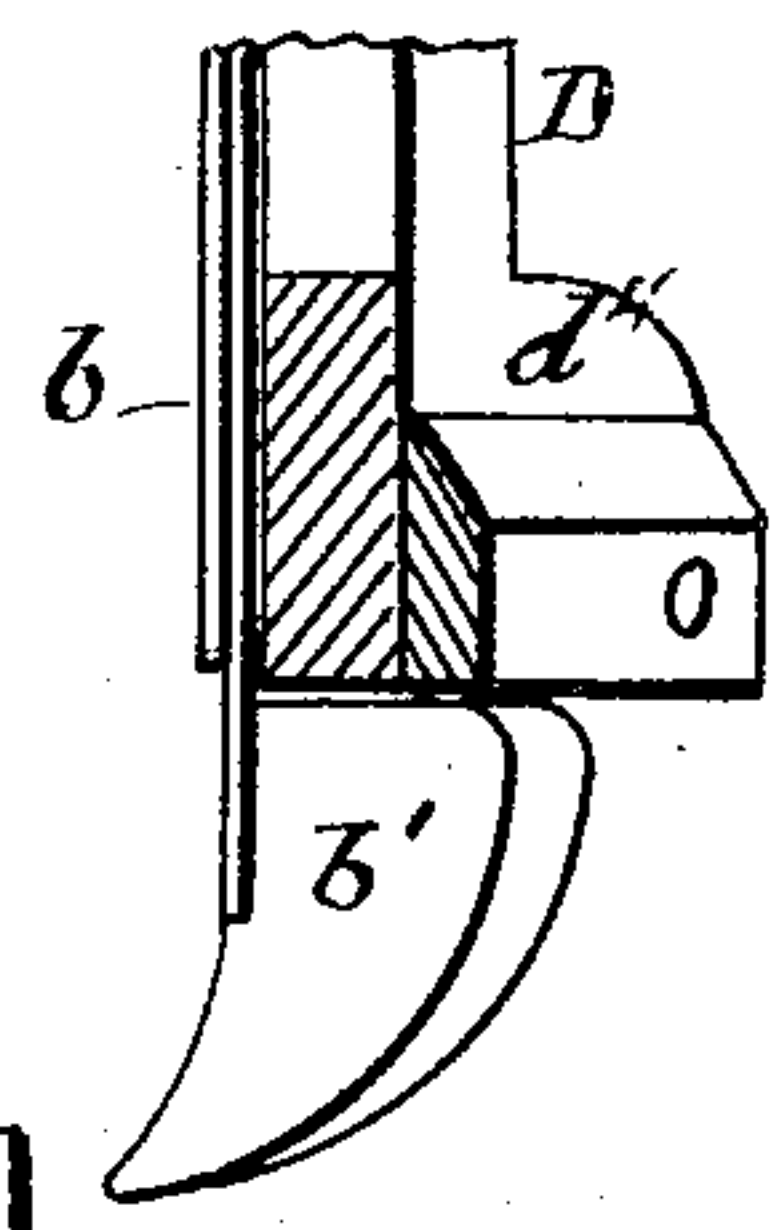
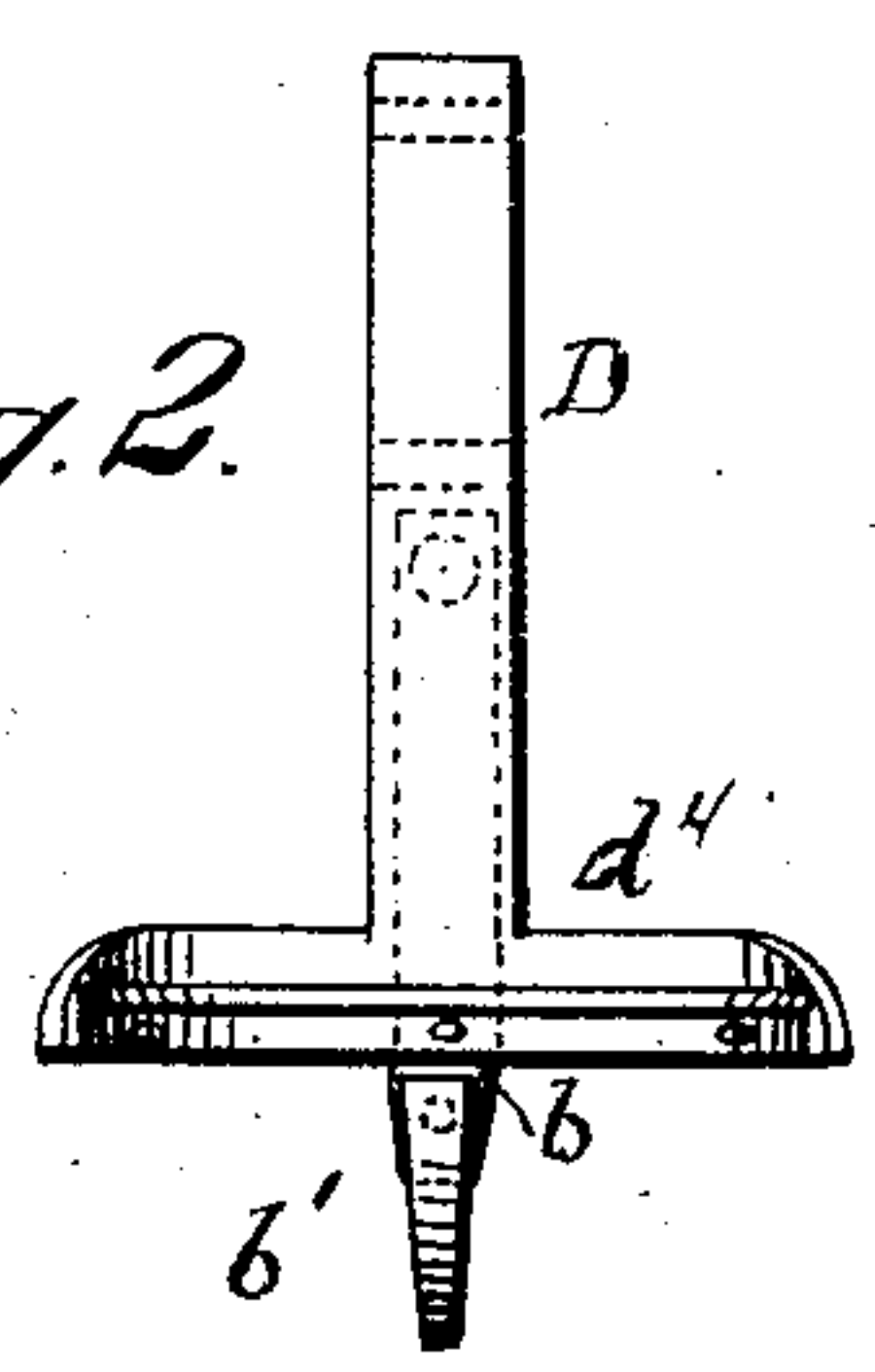


Fig. 2



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THEODORE A. COOK, OF CALLICOON DEPOT, ASSIGNOR TO JAMES MATHISON
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MACHINE FOR HOOPING AND HEADING KEGS.

SPECIFICATION forming part of Letters Patent No. 482,079, dated September 6, 1892.

Application filed November 3, 1891. Serial No. 410,720. (No model.)

To all whom it may concern:

Be it known that I, THEODORE A. COOK, a citizen of the United States, and a resident of Callicoon Depot, in the county of Sullivan and State of New York, have invented certain new and useful Improvements in Machines for Hooping and Heading Kegs, of which the following is a specification.

My invention relates to certain improvements in the machine for hooping and heading kegs, covered by Letters Patent No. 428,831, dated May 27, 1890.

My object is to improve the efficiency of the hoop-drivers; and to this end my invention consists in applying to the ends of each of the hoop-drivers springs which effectually bring them into proper action with each operation of the machine, as hereinafter described and claimed.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which like letters of reference indicate corresponding parts in all the figures.

Figure 1 is a sectional elevation showing sufficient of the operative parts of the machine to clearly illustrate my present invention. Fig. 2 is a front elevation of one of the hoop-drivers removed from the machine, and Fig. 3 is a detailed sectional side view of the lower part of the same.

A represents the upper table or plate, which is vertically reciprocated in the main frame of the machine by any suitable mechanism, preferably that shown in my patent above referred to. This table or plate A is provided at its under surface with a ring or casing B, which incloses the header-plate C and hoop-drivers D D. The header-plate is acted upon by the shoulder or offset *a*, the same as in said patent, and is provided with the tube E, which incloses the spring-actuated header F, also the same as in said patent. The hoop-drivers D are each centrally or nearly centrally pivoted on pins *d* in slots formed in the edge of the header-plate C. To the upper end of each hoop-driver D is attached a rod *d'*, which passes through a hole *d*² in the ring or casing B and has applied thereto a spring G and adjusting-nut *d*³ for retaining and adjusting the tension of the spring. Each spring is bolted to the outer surface of the ring or casing B, as shown clearly in Fig. 1, and is

curved outward to normally draw the lower end of each hoop-driver in firm contact with the keg K to effectively engage with the hoop $\frac{1}{2}$ to be driven thereon, as will be understood from Fig. 1.

To the lower part of each hoop-driver and at the outside thereof I attach another spring *b*, which reaches below the curved arms *d*⁴ of the driver, and to the lower end of this spring I attach a cam *b'*, which comes in contact with the outer surface of the keg at the time the hoops and heads are driven, and these cams not only serve to shift or draw the kegs into proper position should it be at all misplaced at the time the hoops and heads are driven, but they also serve, in conjunction with the springs G, to properly bring the hoop-drivers into engagement with the keg and the edge of the hoop.

I do not limit myself to any special form of springs G, as various forms may be used without departing from the spirit of my invention.

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

1. The ring or casing B, formed with apertures *d*², the inclosed header-plate C, the hoop-drivers pivoted in the header-plate and projecting above the same, and the rods *d'*, attached to the upper ends of the hoop-drivers and projecting through the apertures *d*² and provided with adjusting-nuts at the outer ends, in combination with the plate-springs G, bolted to the outside of the casing and engaging the said rods *d'*, substantially as and for the purposes described.

2. The hoop-driver pivoted in the header-plate and having a spring *b* bolted to the outer surface thereof and projecting below the lower end of the driver, said spring being provided at its lower end with a cam *b'*, held by the spring at a point below the driver, substantially as and for the purposes set forth.

3. A hoop-driver provided with a spring and cam held by the spring at the lower end of the driver, in combination with another stronger spring attached to the upper end of the driver, substantially as described.

THEODORE A. COOK.

Witnesses:

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