J. GILMOUR.

MACHINE FOR MAKING CASKS.

APPLICATION FILED OCT. 9, 1909.

962,210. Patented June 21, 1910.

Fig. 1.

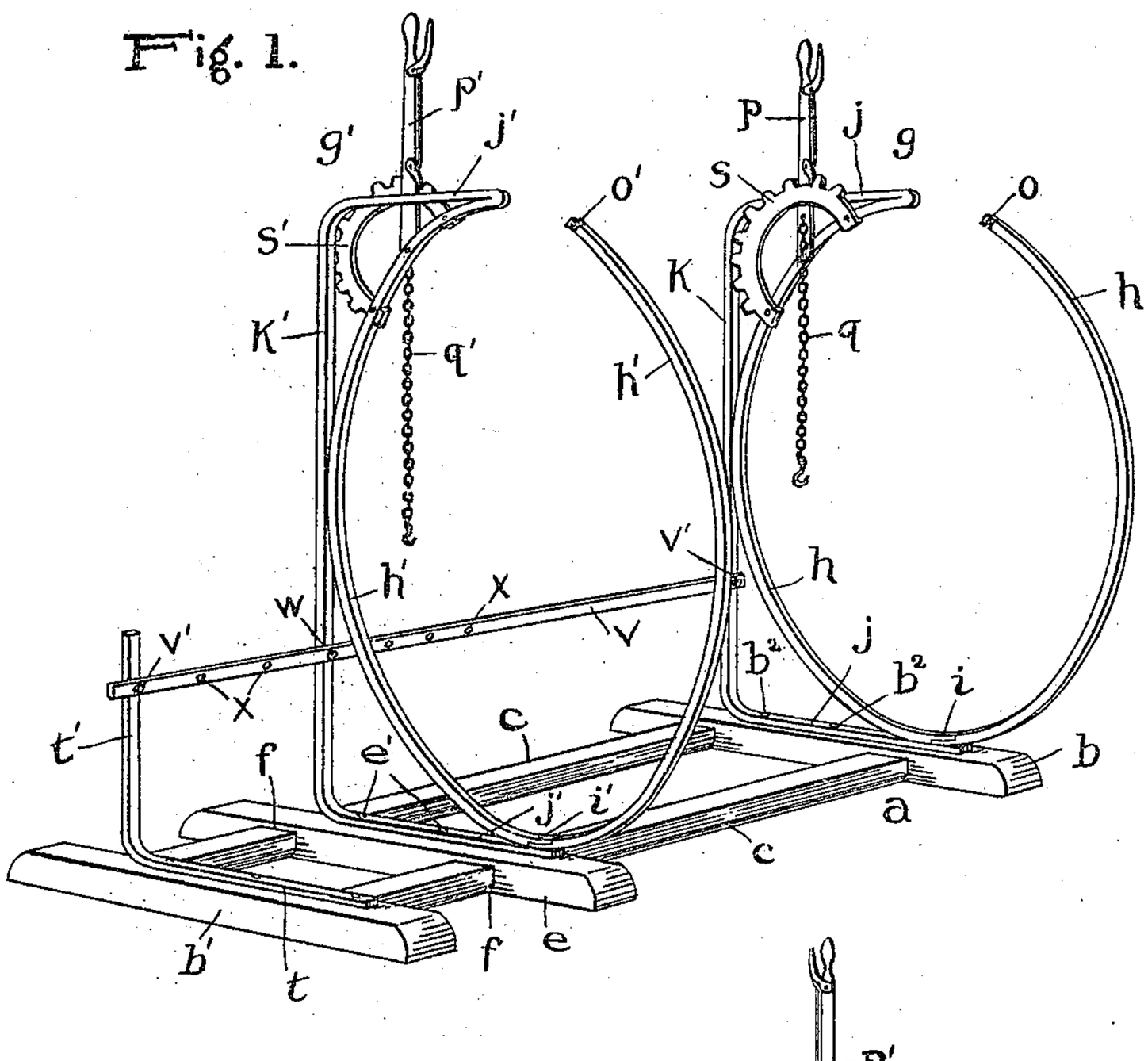


Fig. 2.

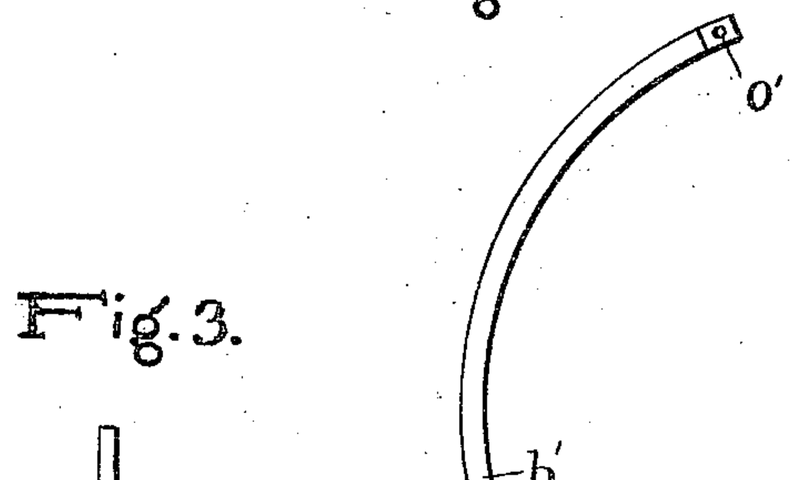
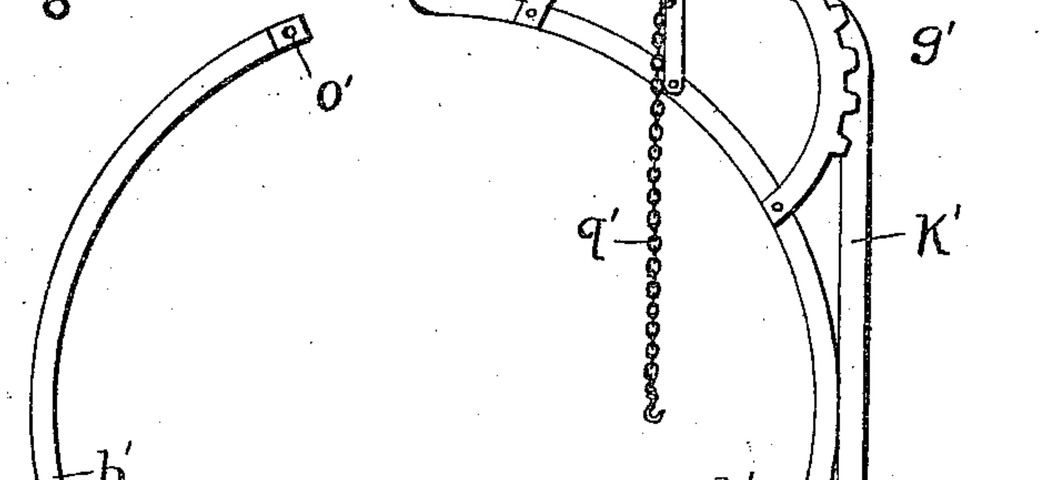


Fig. 3.



Witnesses

Stuart Hilder.

Mary V. Anderson.

Inventor

John Gilmour.

by E. W. Anderson & Son

Attorneys

UNITED STATES PATENT OFFICE.

JOHN GILMOUR, OF OWENSBORO, KENTUCKY, ASSIGNOR TO GILMOUR HOGSHEAD MACHINE COMPANY, A CORPORATION OF KENTUCKY.

MACHINE FOR MAKING CASKS.

962,210. Specification of Letters Patent. **Patented June 21, 1910.**

Application filed October 9, 1909. Serial No. 521,942.

To all whom it may concern:

Be it known that I, JOHN GILMOUR, a citizen of the United States, resident of Owensboro, in the county of Daviess and State of Kentucky, have made a certain new and useful Invention in Machines for Making Casks; and I declare the following to be a full, clear, and exact description of the same, such as will enable others skilled in the art to which it appertains to make and use the invention, reference being had to the accompanying drawings, and to letters and figures of reference marked thereon, which form a part of this specification.

Figure 1 is a perspective view of the machine. Fig. 2 is a cross section of the machine taken between the stave holders and tighteners. Fig. 3 is a detail end view of the angle iron.

The invention relates to machines for making casks, having for its object certain improvements upon the Patent No. 920,730, granted May 4, 1909, with the object of making the machine capable of adjustment for the manufacture of hogsheads, barrels or other casks of different lengths.

The invention consists in the novel construction and combinations of parts as hereinafter set forth.

In the accompanying drawings, illustrating the invention, the letter *a*, designates the supporting base, composed of end cross bars *b*, *b'*, connected by two longitudinal bars *c*, *c*, the whole designed to rest upon the floor.

An intermediate cross bar *e*, similar to the end cross bars, is provided with perforations or notches *f*, *f*, for engagement with the longitudinal bars *c*, *c*, whereby such intermediate cross bar is rendered adjustable along the longitudinal bars.

At one end of the base is provided a stave holder and tightener *g*, as shown in my patent referred to, and of annular or ring form, being formed of two semi-circular sections *h*, *h*, having a hinged connection at *i*, at the bottom thereof. The rear section *h*, is supported by a horizontal top and bottom tangential arms *j*, *j*, and a vertical arm or standard *k*, connecting the arms *j*, *j*, the bottom arm *j*, being suitably secured to one end cross bar *b*, by bolts or screws b^2. The forward section *h*, is hinged at its bottom end to the rear section *h*, at *i*, as before stated, and at its upper or free end is provided with a perforation *o*. A tightening lever *p*, is fulcrumed at its lower end to the rear section *h*, and has a flexible connection *q*, with the upper end of the hinged section *h*. The lever *p*, has a pawl engagement with the teeth of the rack *s*, for the purpose of maintaining the lever and the forward section *h*, in position as adjusted. At the other end portion of the base is provided a stave holder and tightener *g'*, similar in all respects to that first mentioned and having similar letters of reference applied, differentiated by the exponent "'," the bottom arm *j'*, of such holder and tightener being secured to the intermediate adjustable cross bar *e*, by screws or bolts *e'*.

In order to brace the two stave holders *g*, and *g'*, together the end cross bar *b'*, is provided with an angle iron *t*, a longitudinal rear brace bar *v*, having bolt connection *v'*, *v'*, at its ends with the vertical arm *k*, of one stave holder and with the vertical arm *t'*, of such angle iron, and an adjustable bolt connection *w*, with the vertical arm *k'*, of the other stave holder, a series of bolt holes *x*, being provided in the brace bar *v*, to allow for adjustment of the bolt *w*, when the intermediate cross bar and the stave holder and tightener carried thereby are moved in one direction or the other to accommodate staves of different lengths.

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

1. In a machine for making casks, a base having two end cross bars and longitudinal bars connecting the same, an intermediate movable cross bar having adjustment along said longitudinal bars, outside supporting means for the staves having duplicate parts carried by one of said end cross bars and said intermediate cross bar, means for fixing such adjustment comprising an upright carried by the other of said end cross bars, and a longitudinal brace bar having connection with said upright and the outside stave supporting means at the opposite end of the base, and an adjustable connection with the outside stave supporting means carried by the intermediate cross bar.

2. In a machine for making casks, a base having two end cross bars and longitudinal bars connecting the same, an intermediate slidable cross bar having adjustment along said longitudinal bars, outside supporting means for the staves having standards and

semi-circular members one of which is hinged to the other member carried by one of said end cross bars and said intermediate cross bar, means for fixing the adjustment of the intermediate cross bar, comprising an upright carried by the other of said end cross bars, and a longitudinal brace bar having connection with said upright and the standard of the outside stave supporting means at the opposite end of the base, and an adjustable bolt connection with the standard of the outside stave supporting means of the intermediate cross bar.

In testimony whereof I affix my signature, in presence of two witnesses.

JOHN GILMOUR.

Witnesses:
ROLLA R. HAYS,
H. W. BOTTORF.