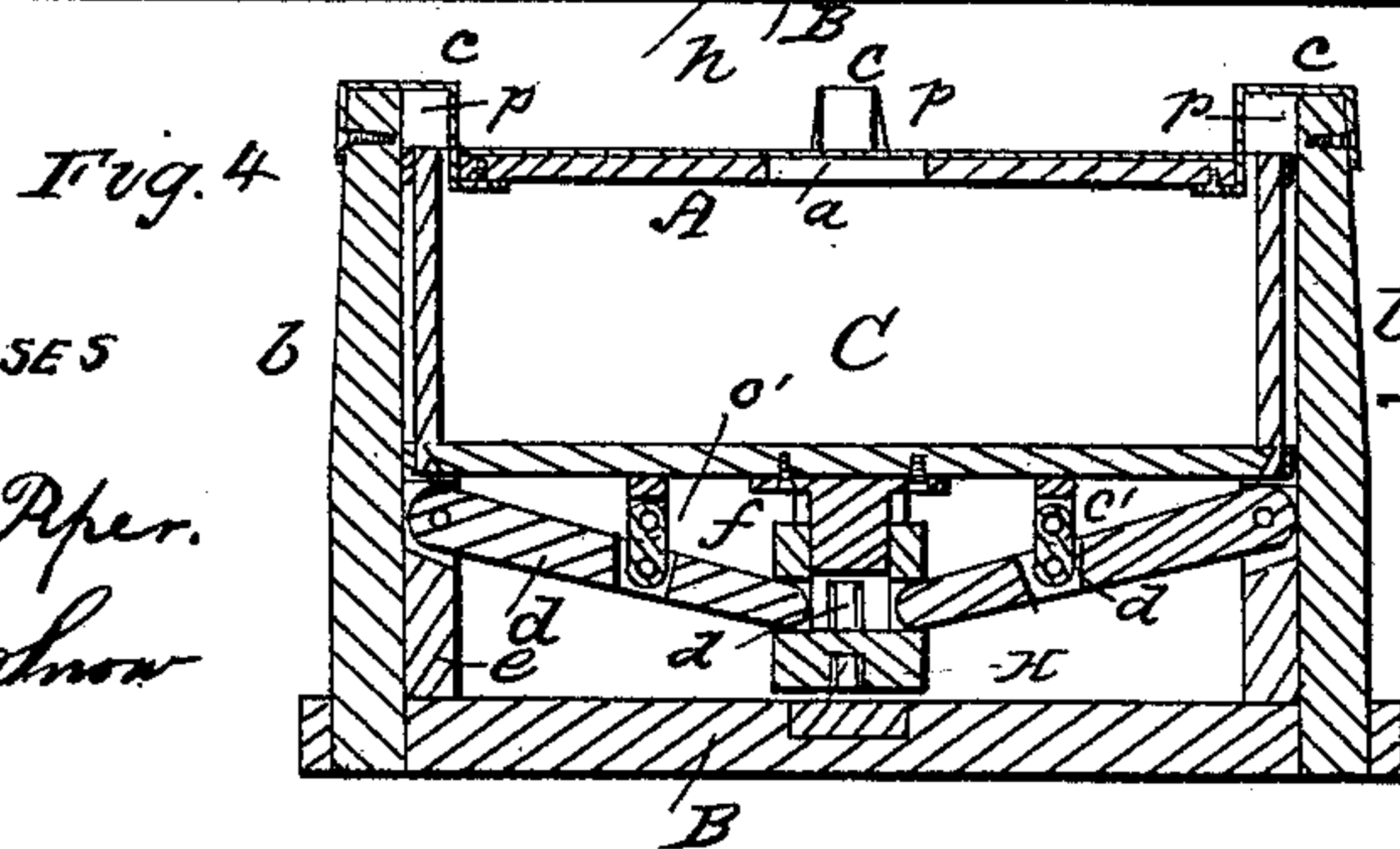
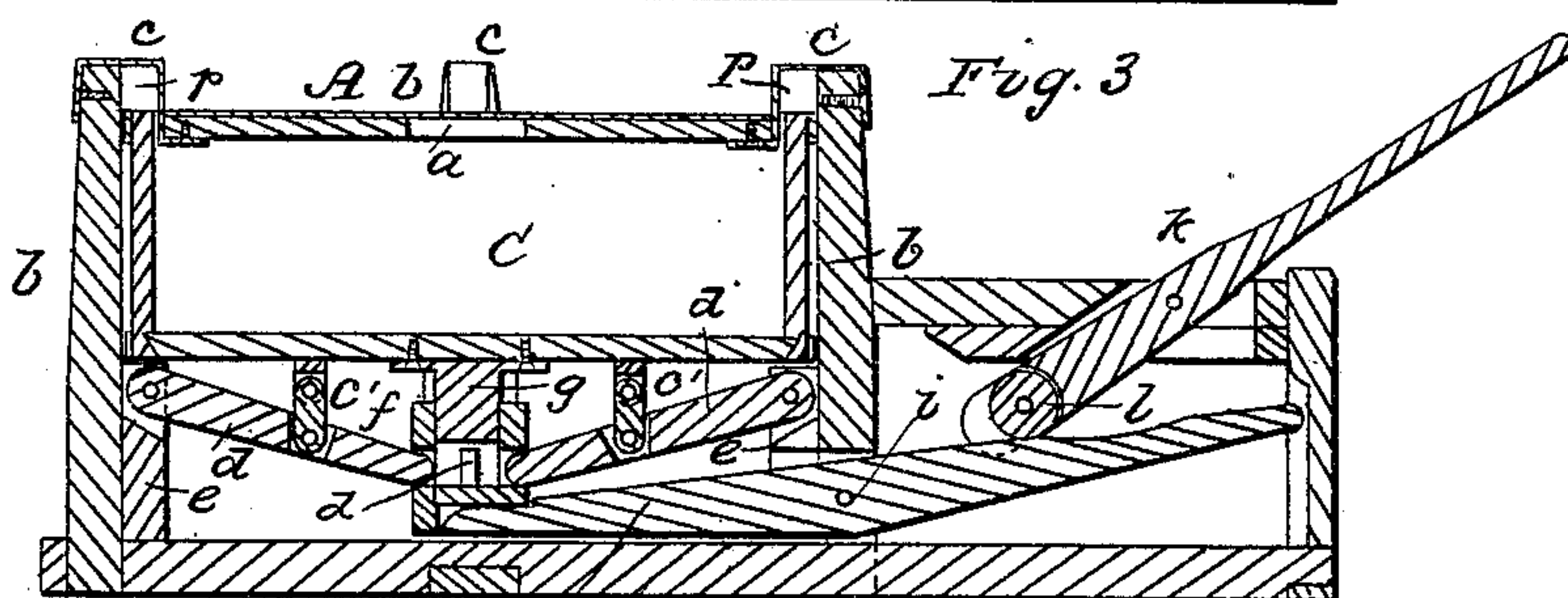
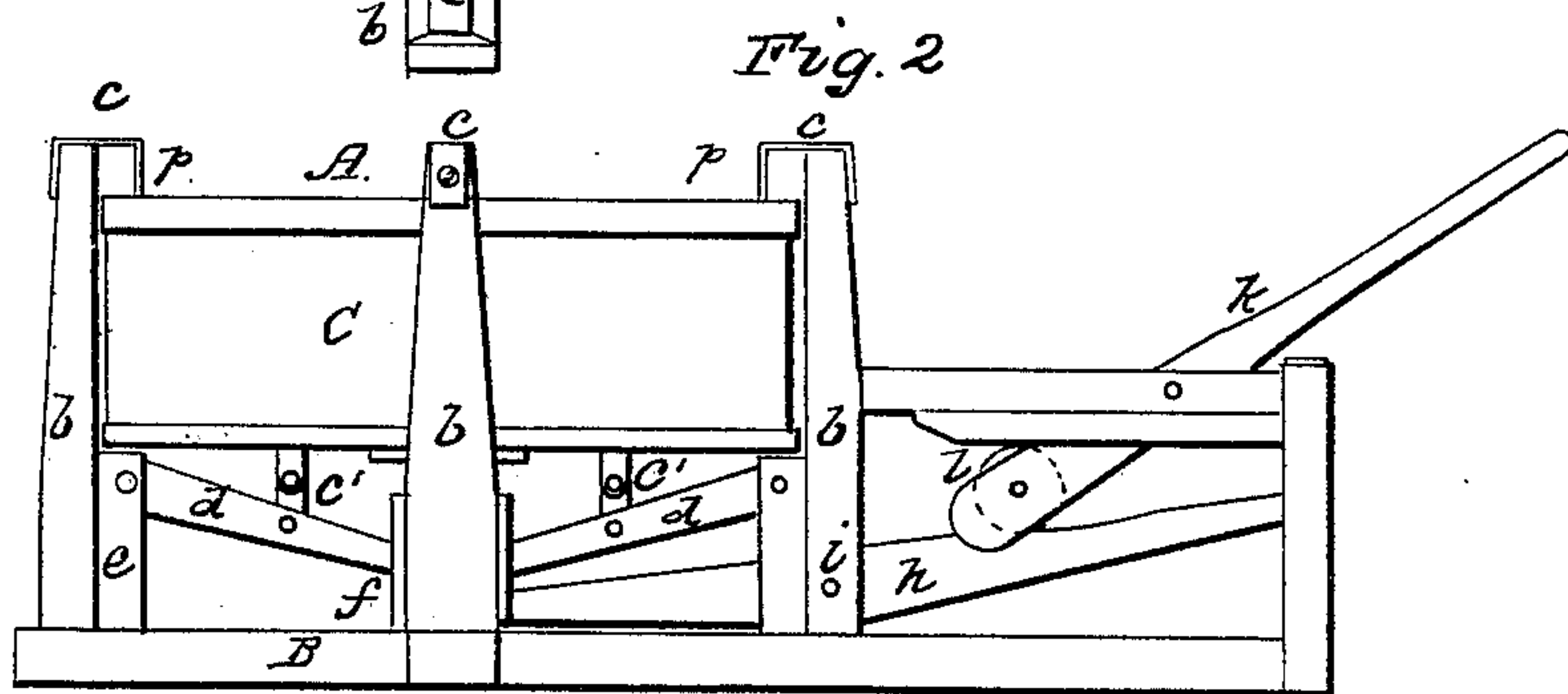
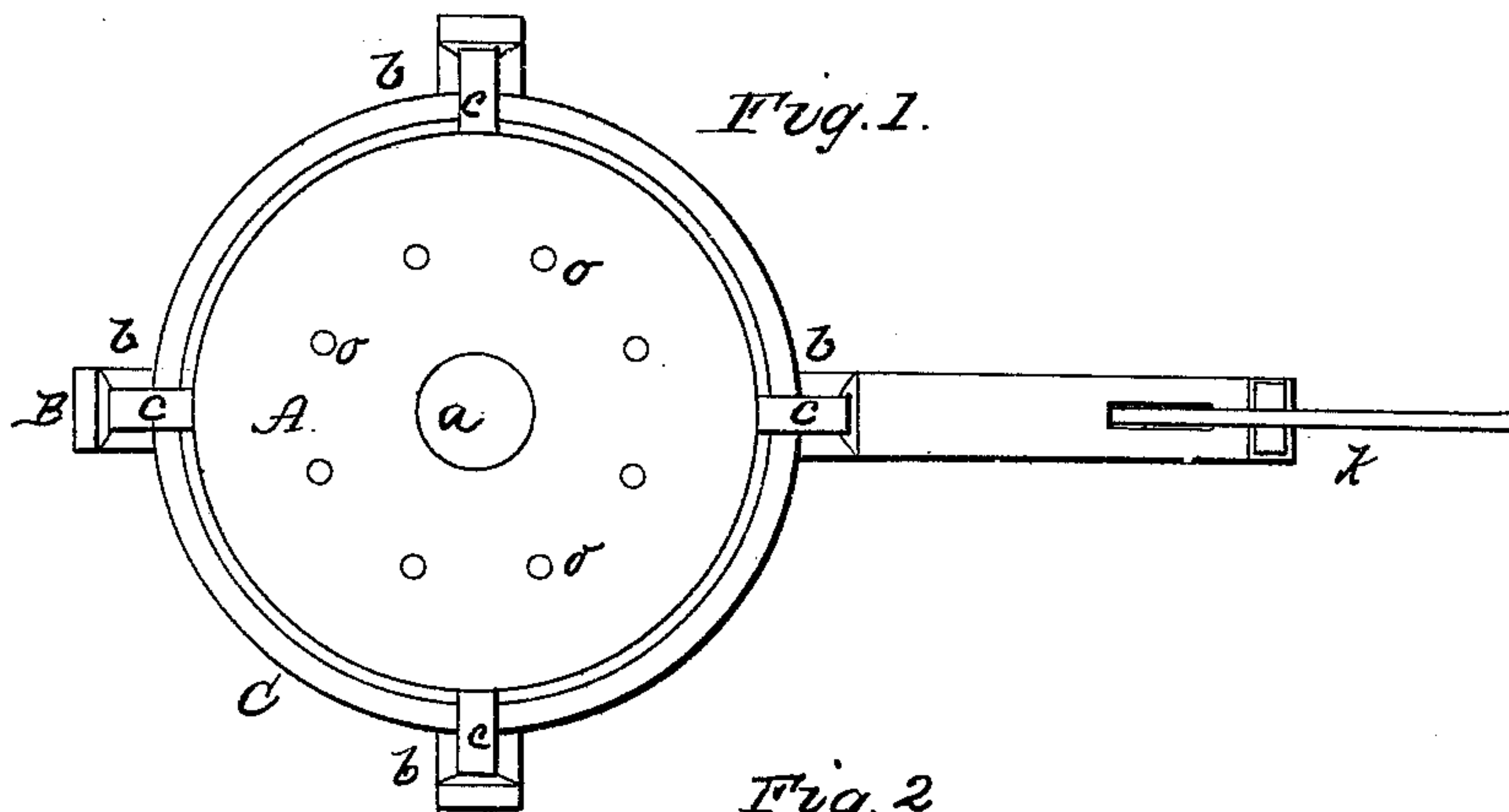


BROWN & GOULD.

Tire Cooler.

No. 91,306.

Patented June 15, 1869.



WITNESSES

*S. T. Piper.*  
*J. A. Nelson*

INVENTORS

*T. S. Brown & R. W. Gould*

*by their attorney*  
*R. A. Eddy*



# United States Patent Office.

THOMAS S. BROWN, OF BOSTON, MASSACHUSETTS, AND GEORGE W. GOULD, OF CAMDEN, MAINE.

Letters Patent No. 91,306, dated June 15, 1869; antedated June 9, 1869.

## IMPROVED TIRE-COOLER.

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

To all persons to whom these presents may come:

Be it known that we, THOMAS S. BROWN, of Boston, of the county of Suffolk, and State of Massachusetts, and GEORGE W. GOULD, of Camden, in the county of Knox, and State of Maine, have invented a new and useful Wheel-Tire Cooler; and do hereby declare the same to be fully described in the following specification, and represented in the accompanying drawings, of which—

Figure 1 is a top view,

Figure 2 a side elevation,

Figure 3 a longitudinal-section, and

Figure 4 a transverse section of it.

The common method of cooling a tire, after its application in a heated state to the felloe of a wheel, has been to pour water on it. It is often the case, that before the tire can thus be properly cooled, it will have burned the felloe too much or unevenly. Our invention is intended, not only to effect the sudden and rapid cooling of a tire, but to accomplish the same evenly around the wheel.

In the drawings, A denotes a circular platform, having a hole, *a*, through it at its centre, the said hole being to receive a wheel-hub, when a wheel is placed flat-side upon the platform. There may be other holes, *o o*, made through the said platform.

This platform is arranged between, and firmly connected to the four uprights, *b b b b*, of a frame, B, by means of arms *c c c c*, each being extended down from one of the said uprights, there being a space, *p*, between the upright and the vertical part of the arm, in order to enable a tub, C, to be raised around the arms, in a manner to cause the tub to receive the platform to a depth sufficient for water, when in the tub, to flood the platform, and a wheel when placed on it.

This tub, arranged in manner as represented, is supported by means of feet *e e e e*, upon the four levers *d d d d*, whose fulcra are at or near their outer ends, and in posts *e e e e*. The inner ends of these levers rest in a tubular slider, *f*, which encompasses a cylindrical projection, or guide, *g*, extending down from the bottom of the tub. The said part *g* serves to steady and guide the tub in its vertical movements. The slider *f* rests on the inner end of a long lever, *h*,

whose fulcrum is at *i*. Another lever, *k*, arranged with the lever *h*, in manner as represented, and provided with a friction-roller, *l*, to bear on the lever *h*, serves to enable a person to move the lever *h* in a manner to cause the tub to ascend or descend, as circumstances may require.

From the above it will be seen, that when the tub is supplied with water, and is in its lowest position, the platform will be out of the tub, and ready for the reception of a wheel to be tired. After a wheel may have been laid on the platform, and a tire in a heated state may have been applied to the wheel-felloe, and driven thereon, the tub should be raised, so as to cause the water to flow over the platform and the wheel-felloe, and thereby suddenly and evenly cool the tire, and effect its shrinkage upon the felloe.

Another mode of constructing our invention is to so apply the platform to the tub, that the latter may be stationary, and the former be movable, in a manner to descend into and rise from the tub, in order that the platform, when a wheel is on it, may be plunged into the tub or the water thereof.

We do not, however, consider this so good a mode of making a tire-cooler as that herein first described.

We claim the combination and arrangement of a wheel-supporter, or platform, A, a tub, C, and mechanism by which the tub is moved so as to immerse the platform, and a wheel, when laid on it, in water, when contained in the tub, the whole being substantially as and for the purpose specified.

We also claim the arrangement and combination of levers, slider *f*, and guide *g*, as described, applied to the tub and the platform-supporting frame, and for effecting the movements of the tub and for guiding it vertically, as described.

We also claim the arrangement and combination of the series of arms, or the open hinges, with the frame B, the platform, and the tub, provided with mechanism for operating the latter, as set forth.

THOMAS S. BROWN,  
GEO. W. GOULD.

Witnesses:

R. H. EDDY,  
S. N. PIPER.