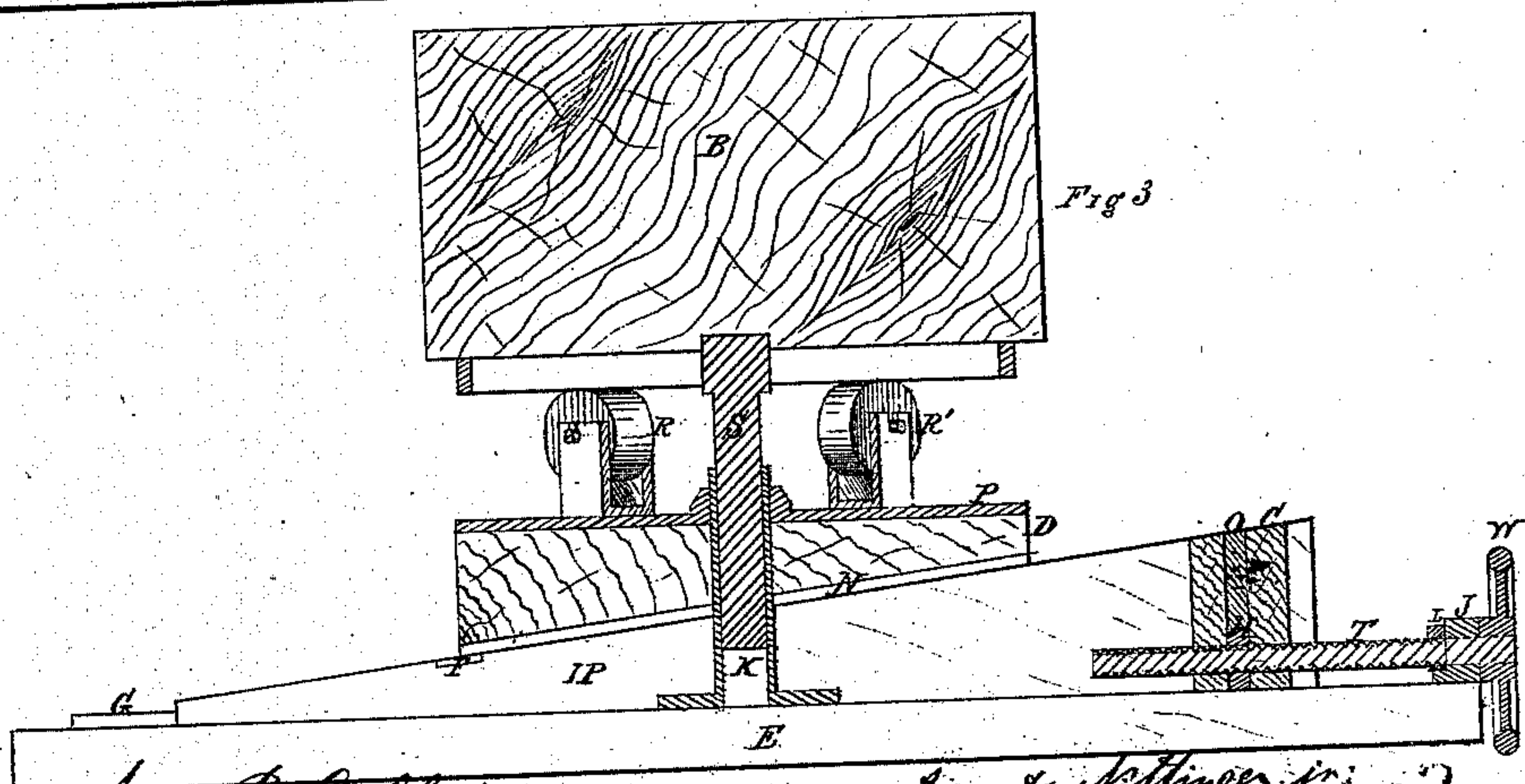
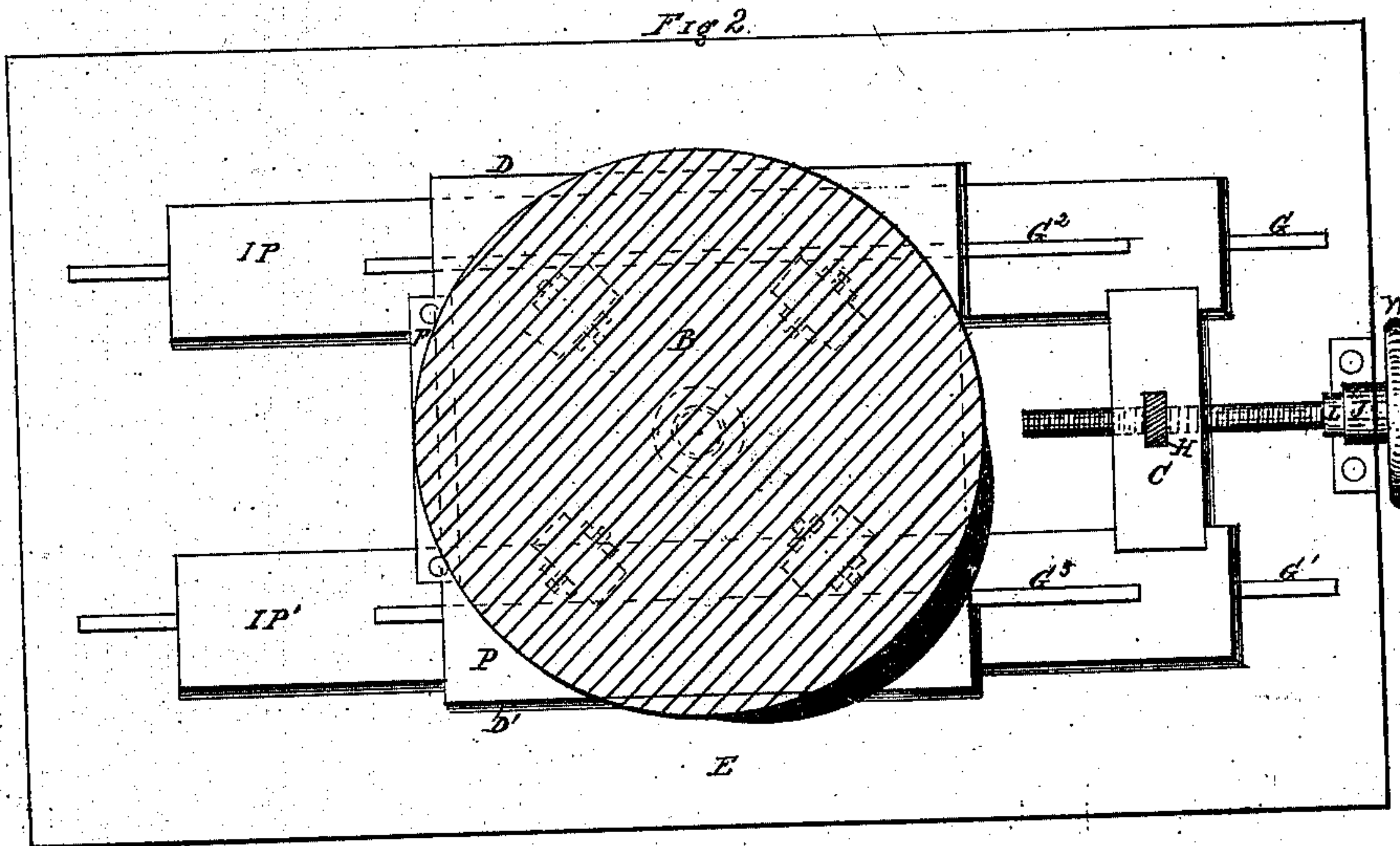
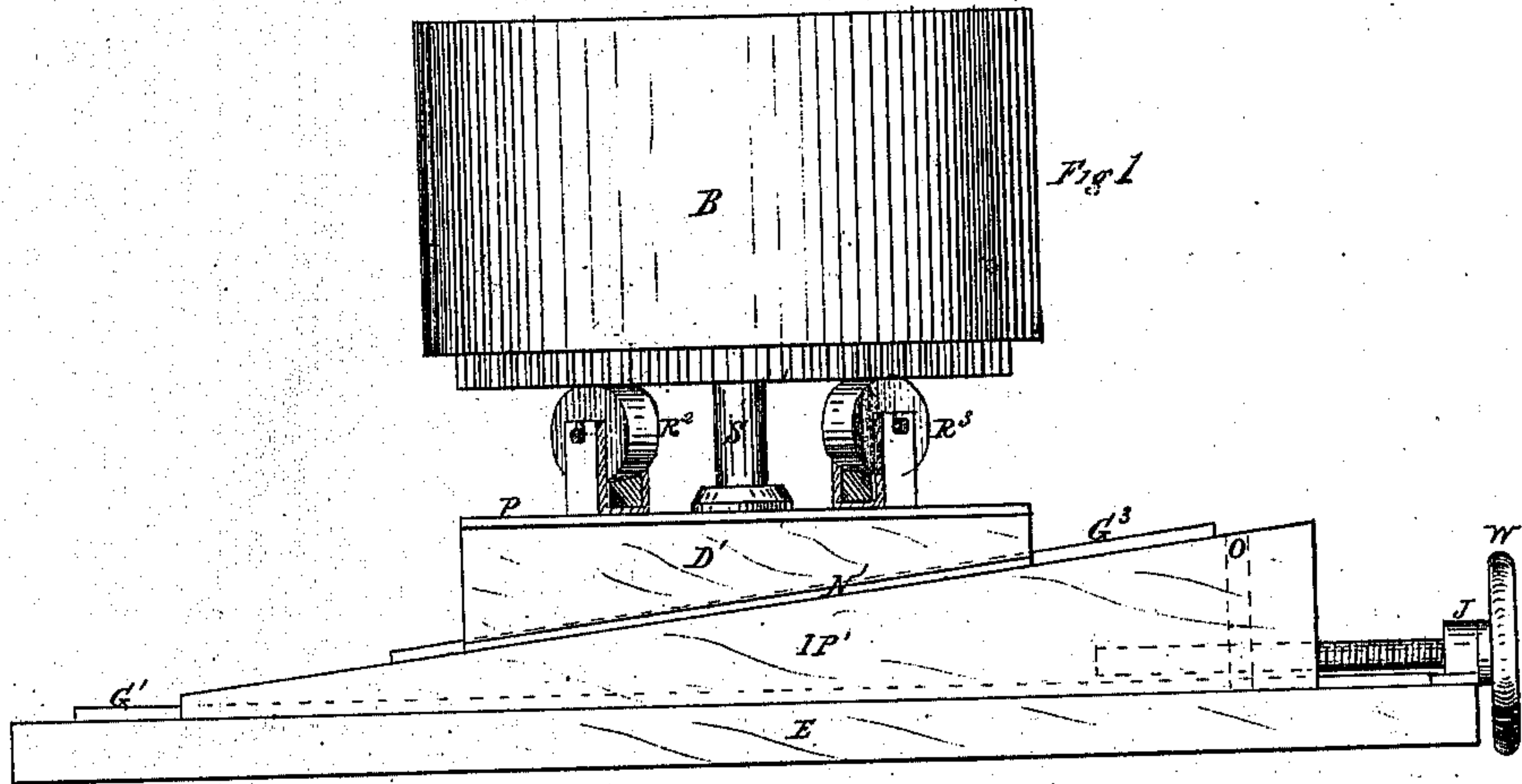


A. Nittinger,

Meat Cutter.

No. 103,360.

Patented May 24, 1870.



Witnesses: *Isaac R. Oakford,*
Charles N. Evans

August Nittinger jr. Inventor

United States Patent Office.

AUGUST NITTINGER, JR., OF PHILADELPHIA, PENNSYLVANIA.

Letters Patent No. 103,360, dated May 24, 1870.

IMPROVED MEAT-CUTTER.

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

To all whom it may concern:

Be it known that I, AUGUST NITTINGER, Jr., of the city and county of Philadelphia and State of Pennsylvania, have invented a new and useful "Improvement in Meat-Cutting Machines; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of same, reference being had to the accompanying drawings and to the letters of reference marked thereon.

The object of my invention consists in adjusting vertically the chopping-block or table of meat-cutting machines, in order to bring its upper surface in the proper position for the cutting-edges of the knives.

To accomplish this, I place underneath the block or table two movable inclined planes, on which the bed-plate and supporting-blocks of the table rest. Secured on the under sides of these blocks are strips of India rubber for receiving the shock and jar of the machine.

The incline planes are operated by means of a screw-shaft provided with a hand-wheel or crank.

Heretofore, when the knives wore away from constant usage, they were adjusted on the cross-heads. This consumed a great amount of time and labor, as it necessitated the slackening and tightening up of numerous nuts on the bolts connecting the knives to the cross-heads.

Figure 1 is a side elevation of my improvement in meat-cutting machines.

Figure 2 is a plan view of same.

Figure 3 is a vertical section of same.

To enable those skilled in the art to make and use my invention, I will now proceed to describe its construction and operation.

The chopping-block or table B is of the ordinary construction, and is provided in the center and on the lower side with a spindle, S, which extends down and revolves in the socket K. This socket is secured to the base-plate E of the machine, and is made of the proper height, so as to allow the block B to rise a considerable distance without withdrawing the spindle S from it.

The bed for supporting the block B is composed of two inclined planes, I P and I P', which are secured at the proper distance apart, and perfectly parallel, by means of the cross-pieces C and brace F. On the upper or inclined surfaces of the said planes are placed two supporting-blocks, D and D', on the upper part of which is placed and secured a bed-plate, P, provided

on its top side with a series of friction-rollers, R, R¹, R², and R³, on which the block B rests and revolves.

The base of each of the inclined planes I P and I P', are grooved in the direction of their length, the grooves being made in any desired form, and fit over corresponding formed guides G and G¹, secured on top of the base-plate E.

The inclined surfaces of the planes are also provided with guides G² and G³, over which are fitted corresponding grooves formed on the lower edges of the blocks D and D'.

Secured on the lower edges of the blocks D and D', and on each side of the guides G² and G³, are strips N and N', of India rubber, which rest on the inclined surfaces of the planes I P and I P', so as to receive any sudden shock or jar, and prevent injury to the machine.

The inclined planes I P and I P' are moved in and out under the blocks D and D', by means of the shaft T, provided with a screw-thread which works into a nut, H. The said nut is placed in a recess, O, formed in the center of the cross-pieces C.

The shaft T is also provided with a collar, L, which works against the bearing J, secured to the base-plate E, motion being given to the shaft through a crank or hand-wheel, W.

The inclined planes I P and I P' are made of any inclination desired, and when moved under the blocks D and D', act as wedges in supporting the chopping-block the proper height, so as to allow its upper surface to be touched by the knives in their up-and-down movements.

Having thus described my invention, its construction and operation,

What I claim and desire to secure by Letters Patent of the United States, is—

The construction and operation of the inclined planes I P and I P', cross-piece C, brace F, supporting-blocks D and D', bed-plate P, spindle S, socket K, India-rubber strips N and N', guides G, G¹, G², and G³, shaft T, nut H, bearing J, collar L, and wheel W, so as to operate substantially in the manner and for the purpose specified.

In testimony whereof I have hereunto signed my name in the presence of two subscribing witnesses.

AUGUST NITTINGER, JR.

Witnesses:

ISAAC R. OAKFORD,
CHARLES H. EVANS.