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PATENTED MAR. 13, 1906.

J. G. RIEFF.

HORSESHOE HEEL AND TOE CALK SPLITTING MACHINE.

APPLICATION FILED NOV. 6, 1903.

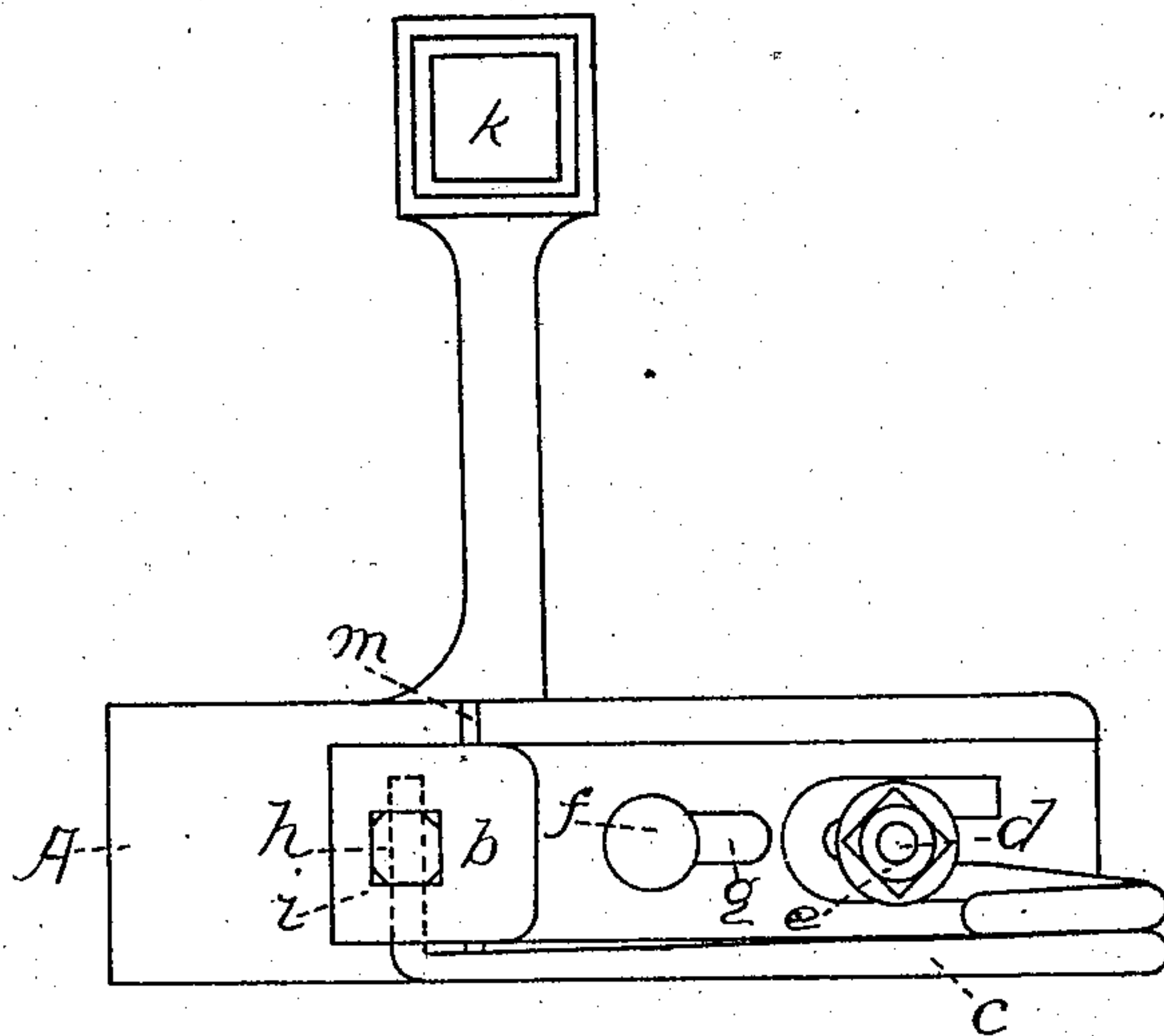


Fig. 1.

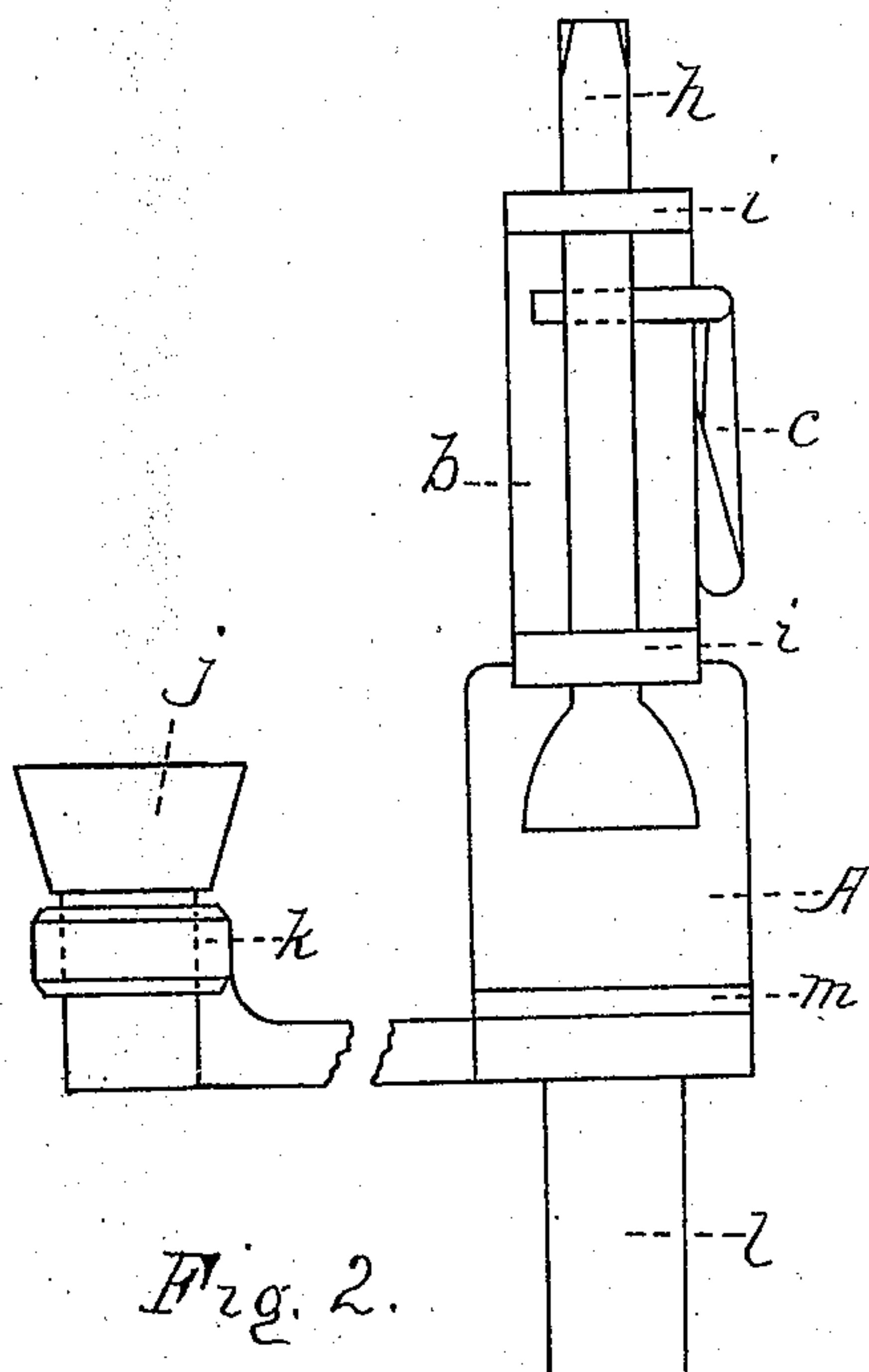


Fig. 2.

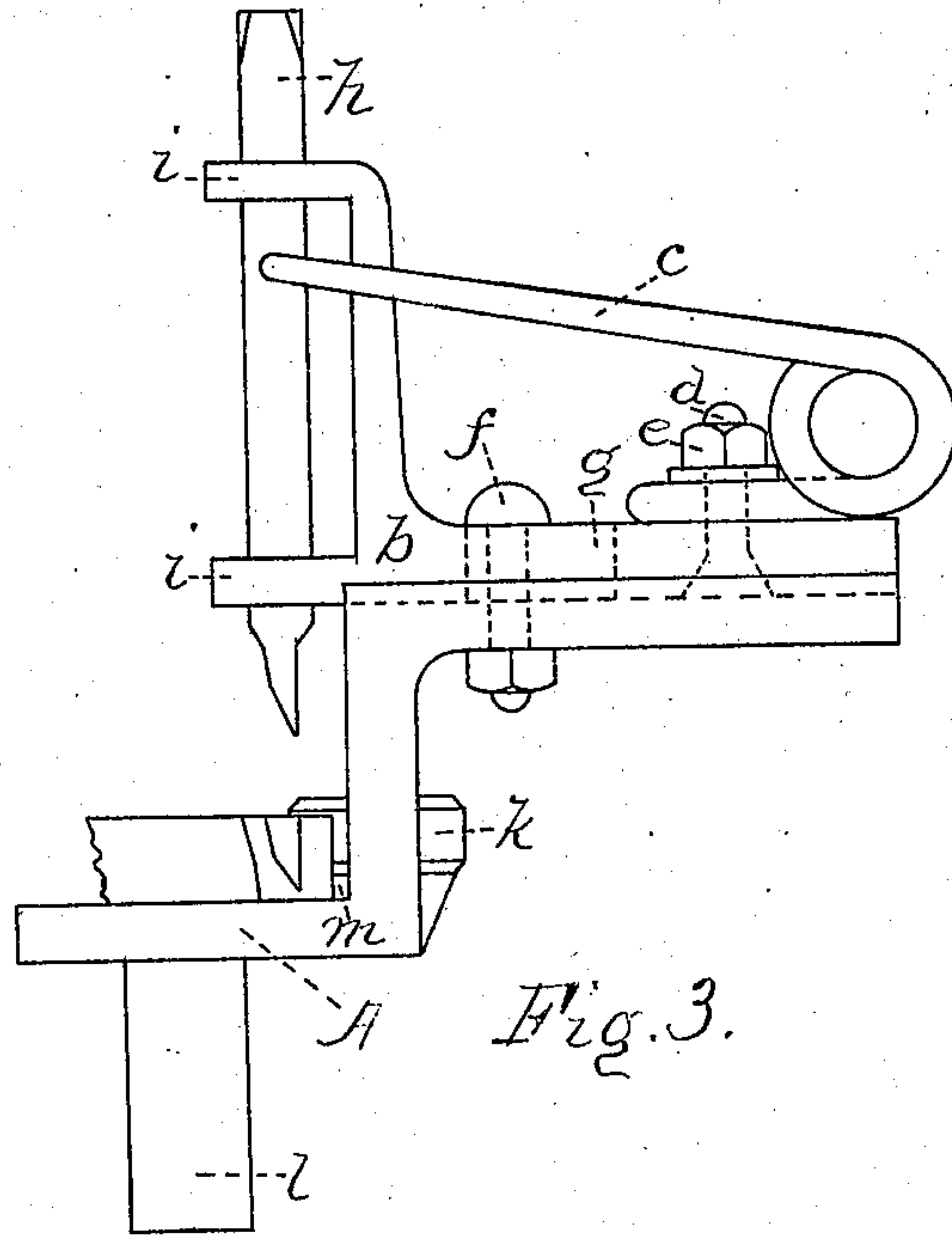


Fig. 3.

WITNESSES:

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UNITED STATES PATENT OFFICE.

JOHN GOTTLIEB RIEFF, OF LONDON, WISCONSIN, ASSIGNOR OF ONE-THIRD TO THEO. E. WIEDENBECK AND ONE-THIRD TO CHAS. W. DOBELIN, OF MADISON, WISCONSIN.

HORSESHOE HEEL AND TOE CALK SPLITTING MACHINE.

No. 815,311.

Specification of Letters Patent.

Patented March 13, 1906.

Application filed November 6, 1903. Serial No. 180,118.

To all whom it may concern:

Be it known that I, JOHN GOTTLIEB RIEFF, a citizen of the United States, residing at the village of London, in the county of Dane and State of Wisconsin, have invented a new and useful Horseshoe Heel and Toe Calk Splitting Machine, of which the following is a specification.

My invention relates to calk-splitting devices which attach to the anvil and guide a rebounding cold-chisel; and the objects of my invention are, first, to provide a machine that can be attached to an anvil by inserting a pin in the hardy-hole; second, to have the cold-chisel adjustable to large or small horseshoes, and, third, to have the cold-chisel raised by a spring, so that after transmitting the blow of the hammer it will leave the heated calk, and thereby retain its temper. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a plan of my machine. Fig. 2 is a front view, and Fig. 3 is a right side view showing the cold-chisel supported by the spring and also showing the heel of a shoe split by the action of the chisel.

Similar letters refer to similar parts throughout the several views.

The base-plate A rests upon the anvil with the downwardly-projecting pin *l* inserted into the hardy-hole. From the base-plate rises a back plate, which terminates in a bracket with flanged sides and through which is a hole to receive the bolt *f*. From the left side of the base-plate extends an arm bearing upon the anvil and terminating in the socket *k* for holding the hardy. The bracket *b* has two projections to the front, through which are square holes *i*, which guide the cold-chisel *h*, and a slot *g*, through which passes the bolt *f* for regulating the distance between the chisel and relief-block and a hole counter-sunk on the lower side into which is inserted the bolt *d* for securing the spring *c* to the said bracket. The relief-block *m* is a projection or ledge across the base-plate A to guide the

work and to allow for the spreading of the metal above the same, as shown in Fig. 3. The cold-chisel *h* has the face next to the relief-block *m* parallel to the line of motion of the chisel and beveled on the other side to prevent it binding and sticking in the hot calk while being operated upon and has a round hole above the center, through which passes the end of the spring *c*. The spring *c* is formed of steel wire with a loop-base one and one-half coils and then runs straight to the center of one side of the cold-chisel, where it turns to the left and passes through the hole in the chisel. To remove the chisel, loosen the nut *e* on the bolt *d* and swing the spring *c* to the side.

It is clear that chisels or punches can be used in this machine, some preferring to punch a square hole to splitting the calk of a horseshoe for inserting the steel plugs.

The present method of preparing a shoe for inserting the plugs is to have the helper hold the work with the tongs while the master with an ordinary cold-chisel or punch either splits or punches the calk, and the tool remaining in the heated calk very soon destroys the temper, while with my machine the chisel leaving the heated work after each and every blow of the hammer the temper is not injured and the labor of one man is saved and the work accomplished with one-half the expense.

What I claim as my invention, and desire to secure by Letters Patent, is—

In a horseshoe heel and toe calk splitting machine in combination with a base-plate, A, hardy-socket, *k*, relief-block, *m*, and cold-chisel, *h*, the bracket, *b*, adjustably arranged to regulate the distance, from the relief-block, to the cold-chisel, substantially as set forth.

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

JOHN GOTTLIEB RIEFF.

Witnesses:

C. C. MAY,
HARRY C. MAY.