

(No Model.)

W. S. PARMAN.
BIT STOCK.

No. 500,153.

Patented June 27, 1893.

Fig. 1

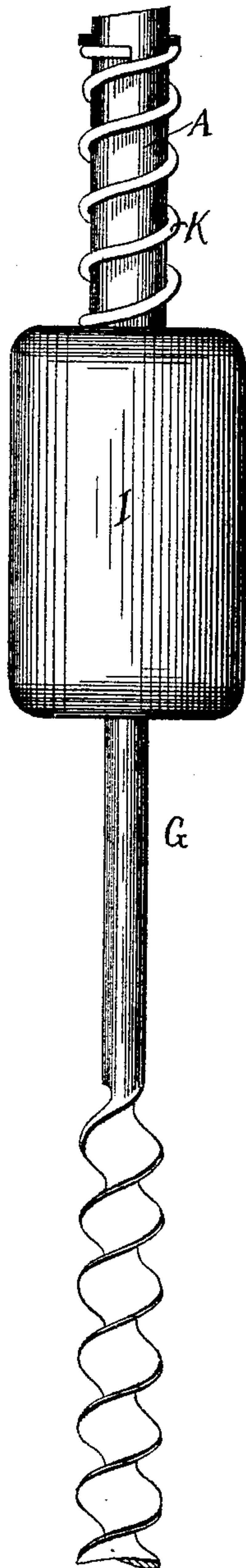


Fig. 2

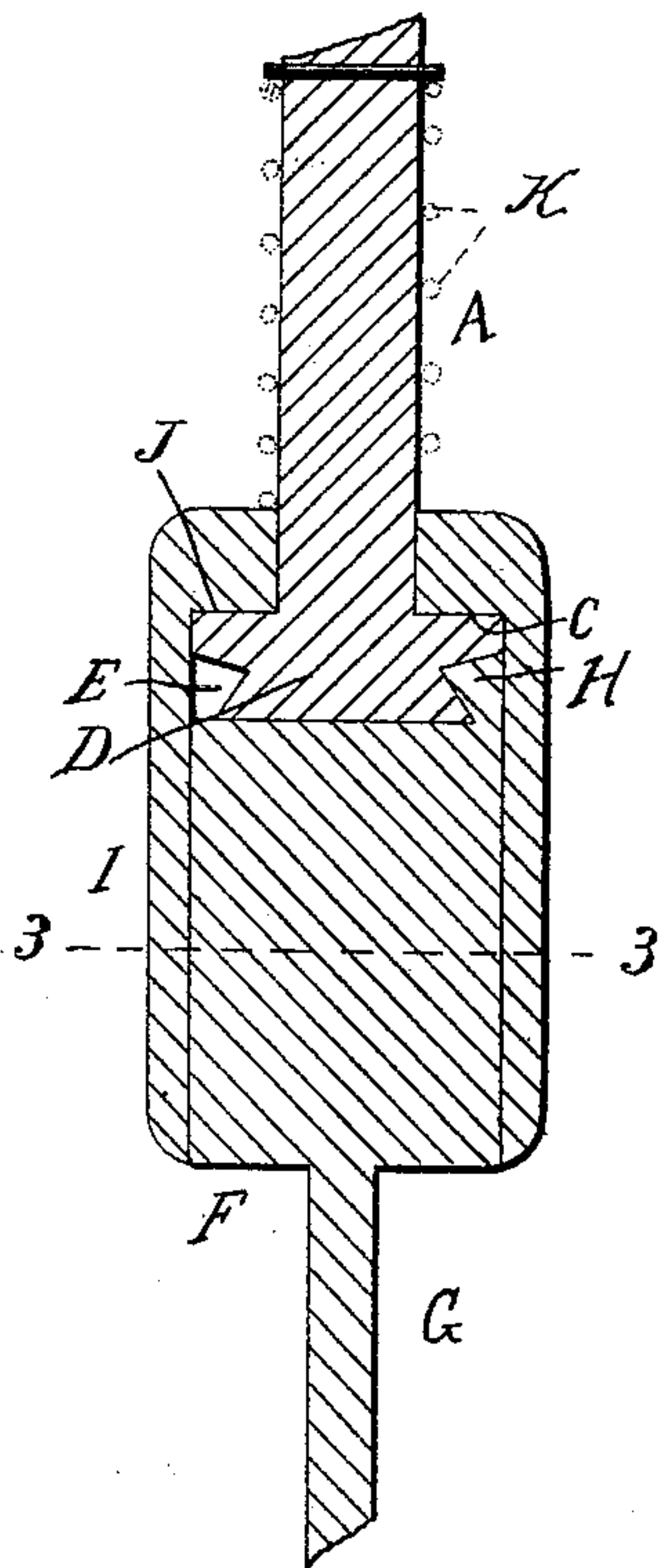


Fig. 3

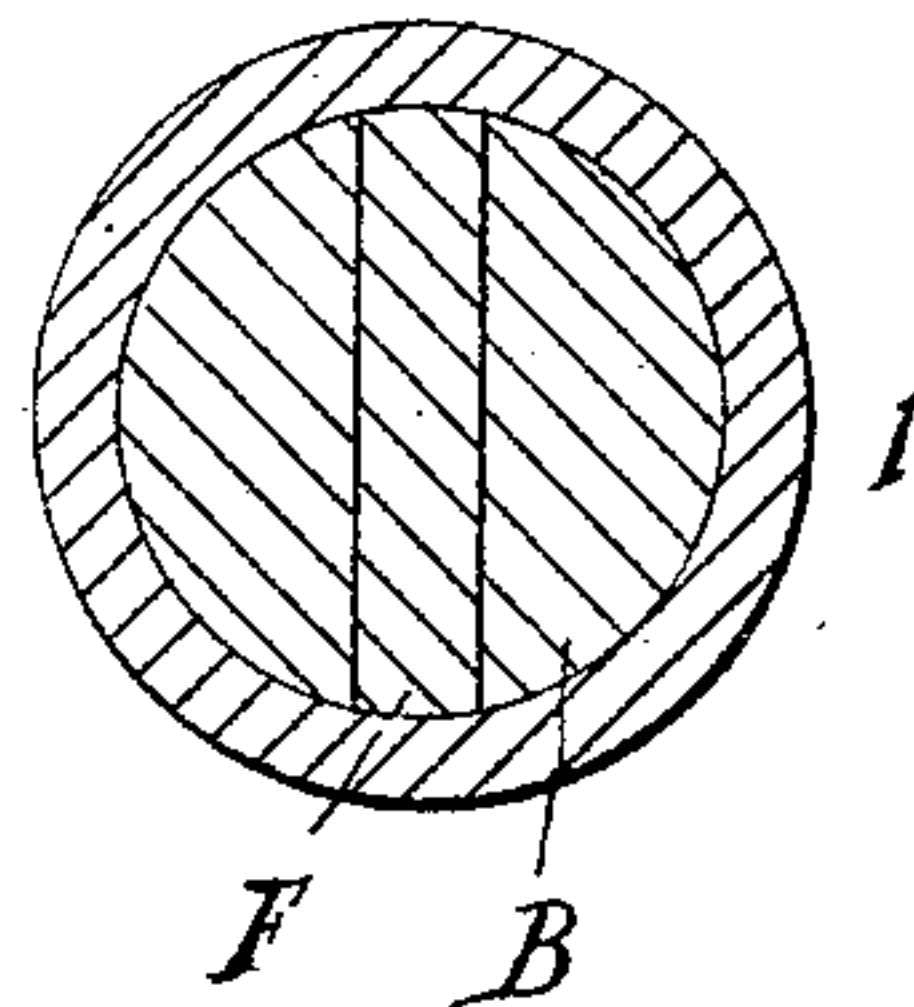


Fig. 4

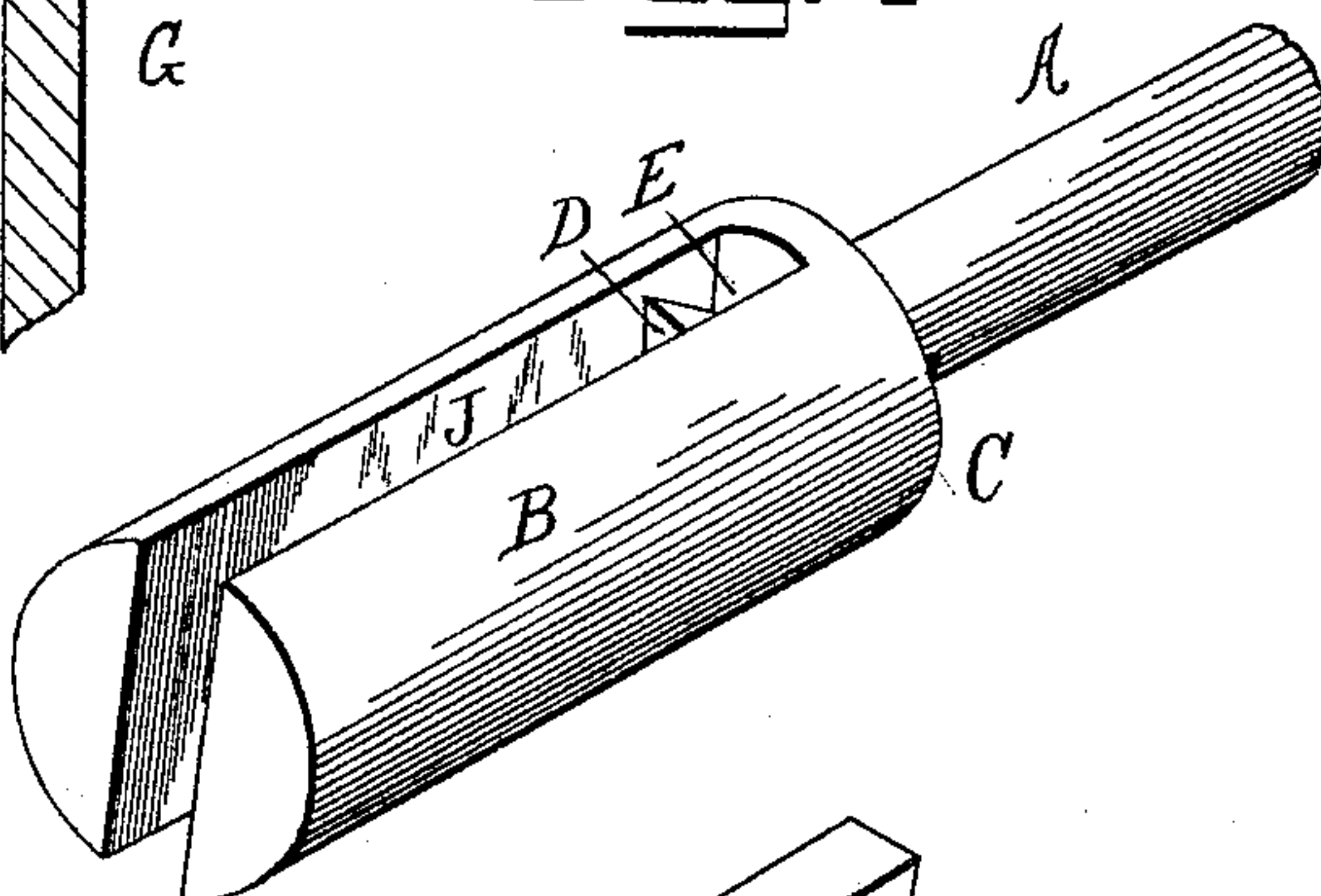
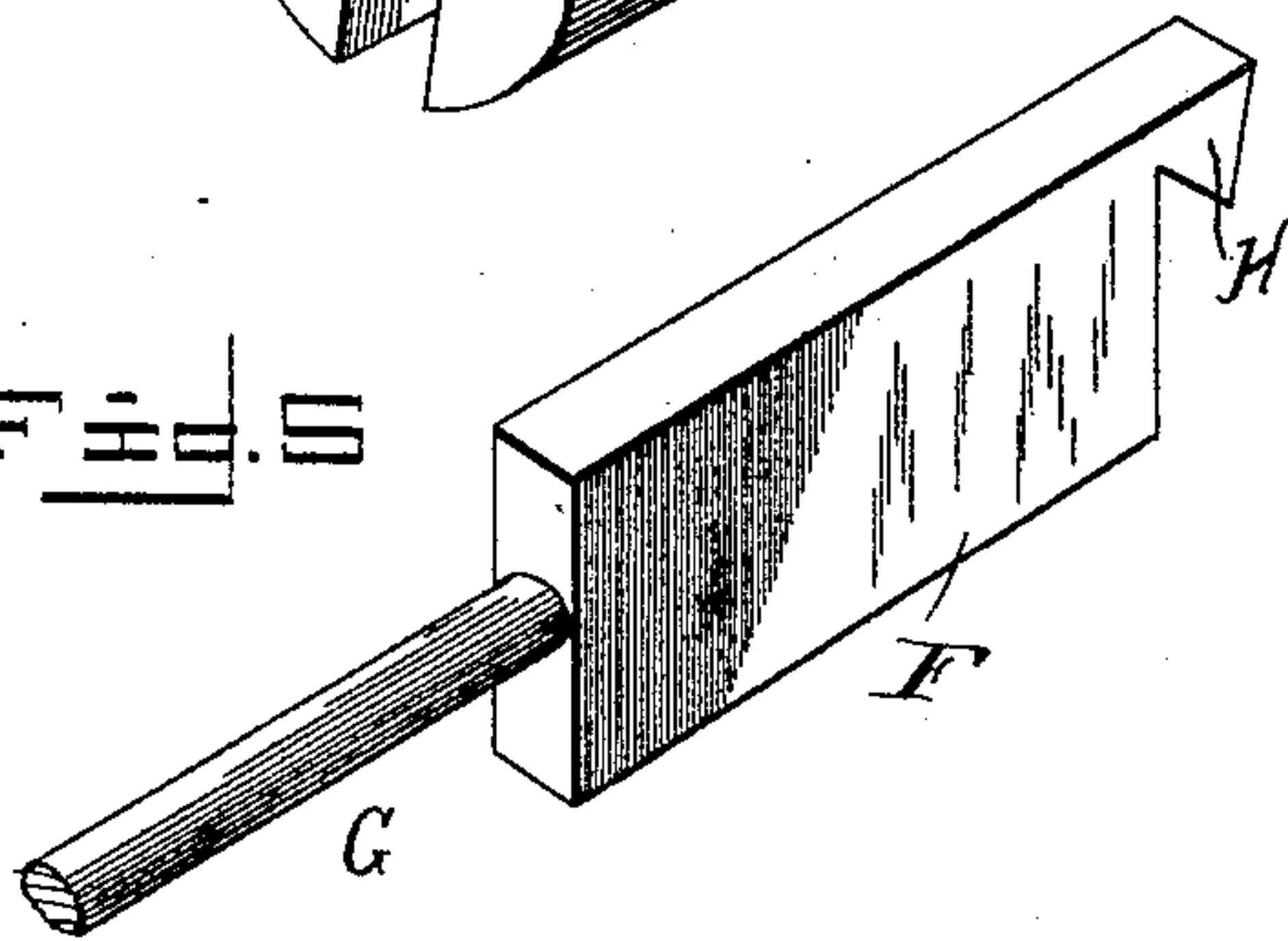


Fig. 5



Witnesses

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WILLIAM S. PARMAN, OF SEDAN, KANSAS.

BIT-STOCK.

SPECIFICATION forming part of Letters Patent No. 500,153, dated June 27, 1893.

Application filed September 14, 1892. Serial No. 445,903. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM S. PARMAN, a citizen of the United States, residing at Sedan, in the county of Chautauqua and State of Kansas, have invented a new and useful Bit-Stock, of which the following is a specification.

This invention relates to bit stocks; and it has for its object to provide an improved bit stock designed for the coupling of the bit to the brace by a secure swivel connection, which allows for the turning of the brace and bit together while the sleeve of the coupling is grasped by the hand in the ordinary manner.

To this end the invention contemplates a simple, durable and inexpensive bit stock easily constructed and manipulated.

With these and many other objects in view which will readily appear as the nature of the invention is better understood, the same consists in the novel construction, combination and arrangement of parts hereinafter more fully described, illustrated and claimed.

In the accompanying drawings:—Figure 1 is a side elevation of my improved bit stock. Fig. 2 is a vertical sectional view. Fig. 3 is a detail sectional view on the line 3—3 of Fig. 2. Figs. 4 and 5 are details in perspective of the brace or stock shank and the bit shank respectively.

Referring to the accompanying drawings: A represents the stock or brace shank to which is connected the ordinary brace of any character, which is designed to turn the same. The said brace shank terminates at one end in a cylindrical bifurcated head B, which head joins the shank A in the shoulder C, and is provided at opposite sides of the base D, of its bifurcation, with the opposite angular locking notches or recesses E. The bifurcation of the cylindrical head B is designed to removably receive the flattened bit shank head F formed at one end of the bit shank G and of a width equaling the diameter of said cylindrical head. The flattened head F snugly registers with the bifurcation of the stock head B and is provided at one inner corner with the inwardly projecting or facing angular locking tongue H, which is designed to register with and engage either one of the angular notches or recesses E, according to

the position the flattened head F occupies in the head B. As illustrated the inner end of the head F rests flat upon the base D of the head B, so that the bit shank is snugly seated within its socket or bifurcation. The two interlocking heads are held in locking engagement with each other by means of the sliding coupling sleeve I. The said sleeve I moves over the brace or stock shank A, and is provided with an inner socket J, which registers with the cylindrical head B, and therefore incloses the flattened head F, in locking engagement within said cylindrical head, the shoulder of the inner socket J, resting against the shoulder C, of the cylindrical head B.

The coupling sleeve I, is preferably held over the head B, by a suitable spring K, secured at one end to the shank A, and bearing against said sleeve in order to hold the same in its proper locking position, while at the same time allowing the same to be slid back sufficiently far upon the shank A, in order to expose the head B, and allow the bit shank head to be removed from or placed within the head B, said sleeve I, of course, resuming its normal inclosing position, in either case, upon being released. The use of the spring K, is optional, though preferable, and is illustrated in full and dotted lines, inasmuch as other spring devices can be employed for throwing the sleeve I, over the heads B, F, respectively.

From the foregoing it is thought that the construction, operation, and many advantages of the herein described bit-stock are apparent without further description.

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

1. In a bit stock the combination of a brace shank provided with a cylindrical bifurcated head having separate locking notches, the bit shank having a flattened head at one end of a width equaling the diameter of said cylindrical head and snugly registering in the bifurcation thereof, said flattened head having a single locking tongue adapted to engage either of the locking notches of said bifurcated head, and a socketed coupling sleeve mounted to slide on the brace shank and to inclose the bit shank head within said bifurcated head, substantially as set forth.

2. In a bit-stock, the brace-shank provided with a cylindrical bifurcated-head at one end having angular locking notches at opposite sides of the base of its bifurcation, the bit-
5 shank provided at one end with a flattened head adapted to register with the bifurcation of said cylindrical head and an angular locking tongue, adapted to engage either one of said angular notches, and a sliding socketed
10 coupling sleeve moving on said brace-shank,

and adapted to inclose the inter locking heads, substantially as set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

WILLIAM S. PARMAN.

Witnesses:

WILLIAM J. ANDERSON,
T. C. STANLEY.