F. L. GLENN.

DRILL BOOT.

APPLICATION FILED OCT. 24, 1912.

1,074,857. Patented Oct. 7, 1913.

Fig. 1.

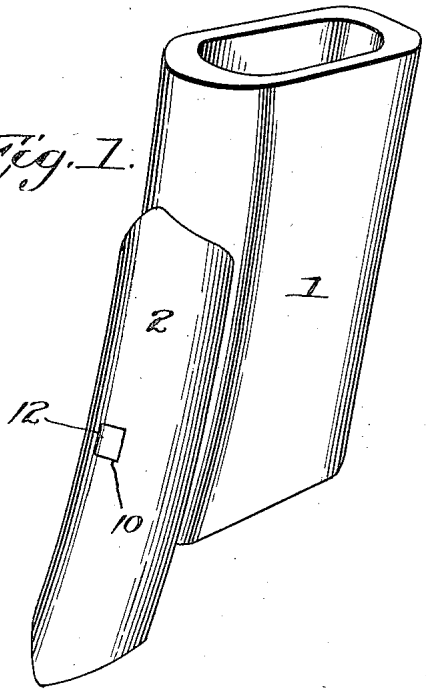


Fig. 2.

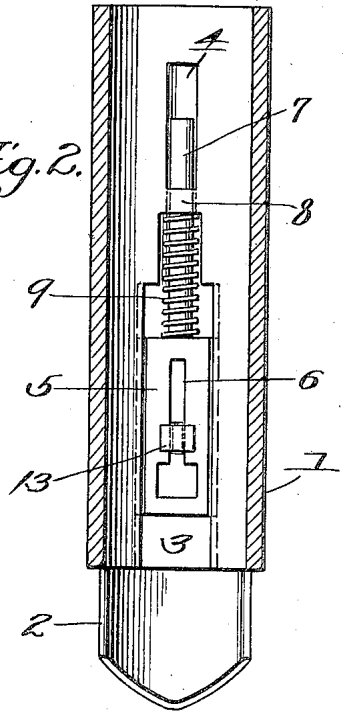


Fig. 3.

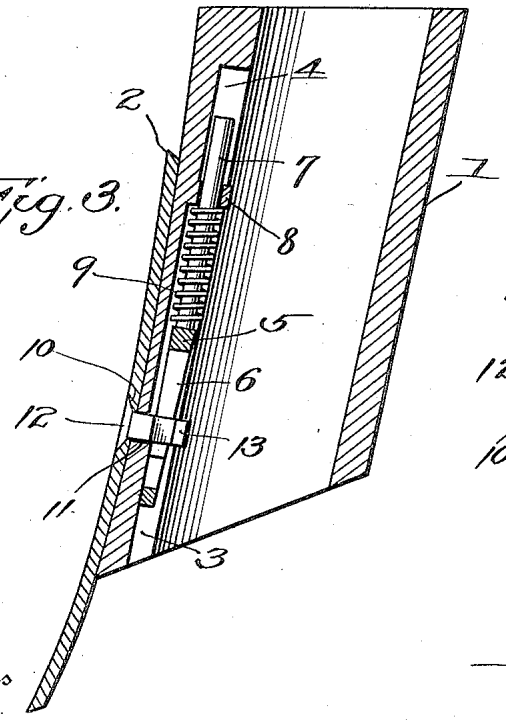
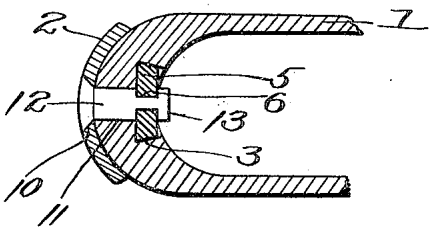


Fig. 4.



Witnesses

Alvin W. Holmes

E. B. McGrath

Inventor

F. L. Glenn

By Chas. B. Brock

Attorney

COLUMBIA PLANOGRAPH CO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

FRANK L. GLENN, OF MINT SPRING, VIRGINIA.

DRILL-BOOT.

1,074,857. Specification of Letters Patent. Patented Oct. 7, 1913.

Application filed October 24, 1912. Serial No. 727,600.

To all whom it may concern:

Be it known that I, FRANK L. GLENN, a citizen of the United States, residing at Mint Spring, in the county of Augusta and State of Virginia, have invented a new and useful Improvement in Drill-Boots, of which the following is a specification.

This invention relates to means for locking a furrow opening point to a grain boot and the invention consists of the novel features of construction hereinafter described, pointed out in the claims and shown in the accompanying drawings, in which:

Figure 1 is a perspective view of the boot with the point attached thereto. Fig. 2 is a longitudinal section through the boot. Fig. 3 is a longitudinal section through the boot point, taken at right angles to Fig. 2. Fig. 4 is a transverse section, partly broken away.

In these drawings 1 represents the boot and 2 the furrow opening point, either of which may be of any desired size, shape or construction. On the front side the boot is provided with an interior longitudinal dove-tailed recess 3, the upper end of which communicates with a longitudinally extending groove 4. A dove-tail plate 5 is adapted to slide snugly in the recess 3, and said plate is provided with a T-slot 6. At its inner end the plate carries a shank 7 which works in the groove 4. This groove is bridged as shown at 8, and the shank works under the bridge and a spring 9 encircles the lower portion of the shank and bars respectively upon the plate 5 and the bridge 8. The point 2 is provided with a suitable countersunk opening 10, adapted to register with an opening 11 in the front of the boot, the opening 11 communicating with the recess 3. A locking pin 12 is provided at its inner end with a T-head 13, adapted to pass through the head of the T-slot 6.

In use plate 5 is pushed upwardly or inwardly to bring the head of the slot 6 into registry with the openings 10 and 11, and the head 13 of the pin is passed through the plate 5. Upon releasing the plate the spring 9 will force the same downwardly and the parts will assume the position as shown in Fig. 2 in which position the point will be securely locked upon the boot, as the head 13 cannot pass through the narrow portion of the slot 6.

What I claim is:—

1. A grain boot having a dove-tail recess upon its inner front face, a spring pressed plate slidably arranged in said recess and having a T-slot, said boot having a front opening communicating with the recess, a point, and a pin having a T-head carried by said point and adapted to pass through said opening in the boot and through the head of said T-slot, as and for the purpose set forth.

2. The combination with a point having a locking pin provided with a T-head, of a boot longitudinally recessed upon its inner front face and having a front opening communicating with said recess, a plate slidable in the recess provided with a T-slot the larger end of which is adapted to receive the T-head of the locking pin, said boot having a longitudinal groove communicating with the inner end of the recess, a shank carried by the plate and adapted to work in said groove, said groove being bridged at one point and a spring encircling said shank and bearing upon the bridge and upon said plate.

FRANK L. GLENN.

Witnesses:
J. R. FAURY,
W. C. BERRY.