

(No Model.)

T. ARNDT.  
STOCK RELEASING DEVICE.

No. 324,742.

Patented Aug. 18, 1885.

Fig. 1.

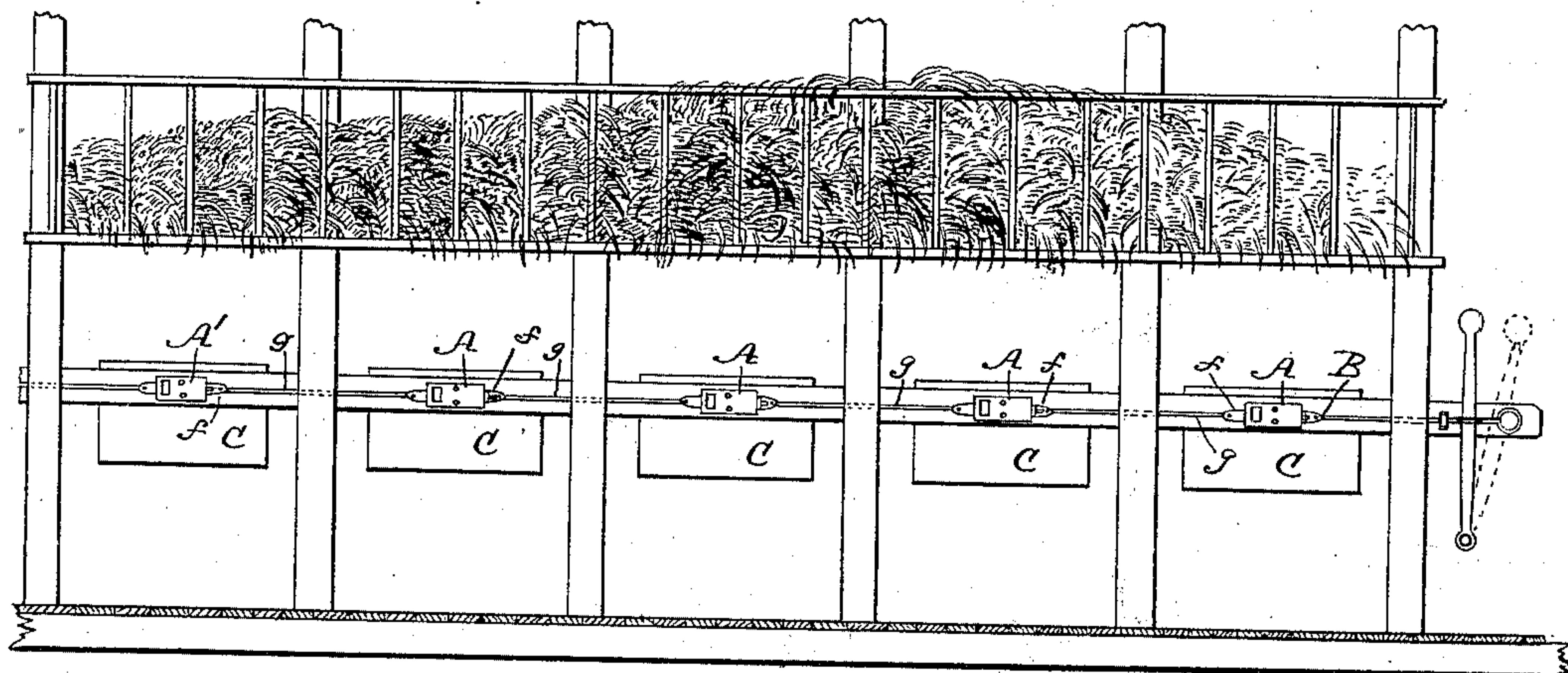


Fig. 2.

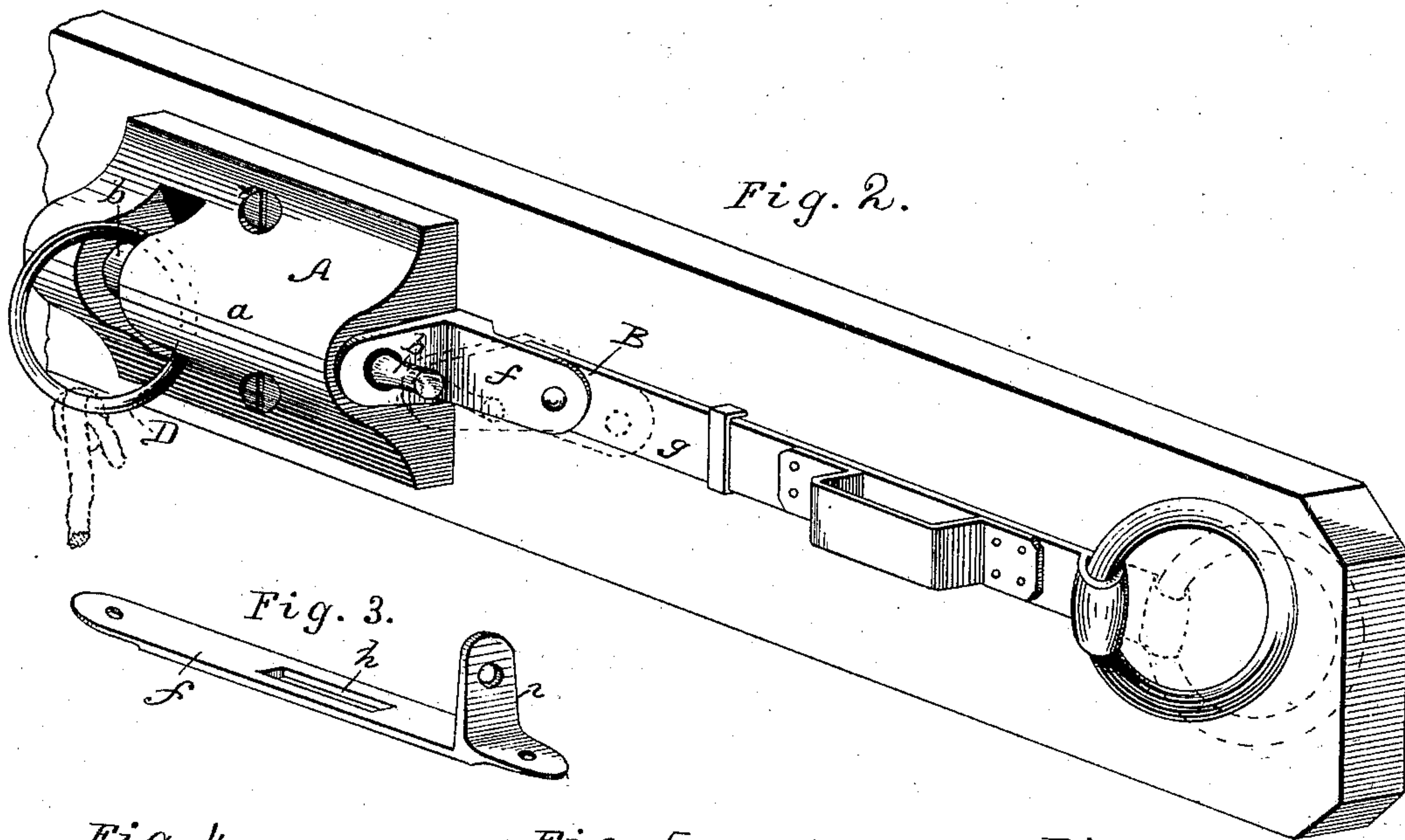


Fig. 3.

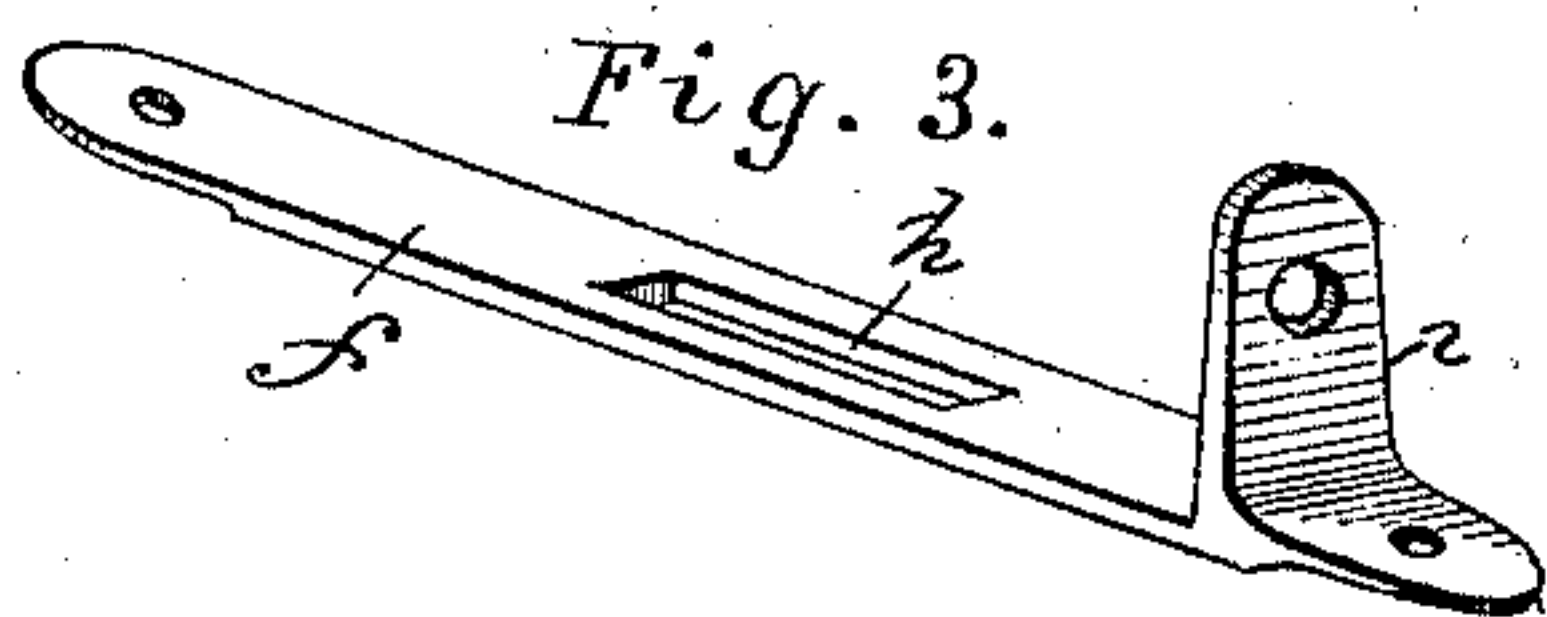


Fig. 4.

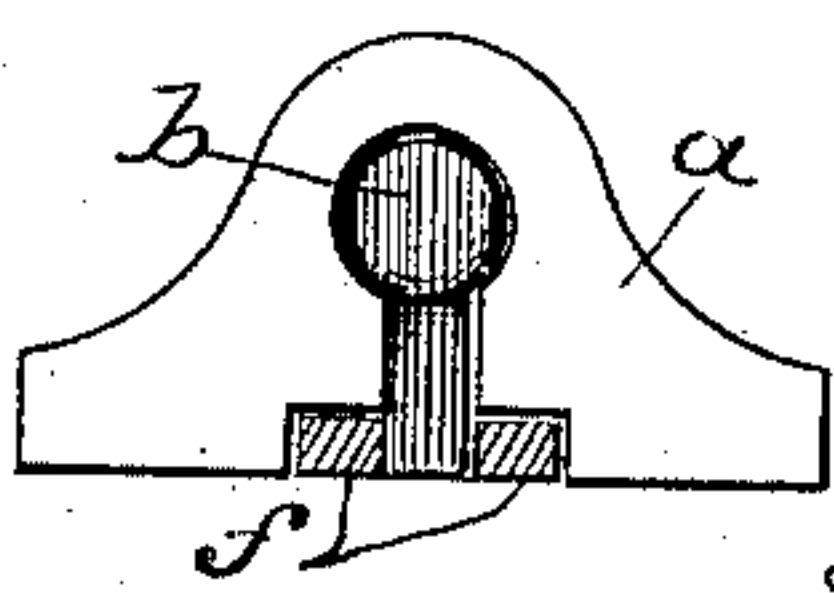


Fig. 5.

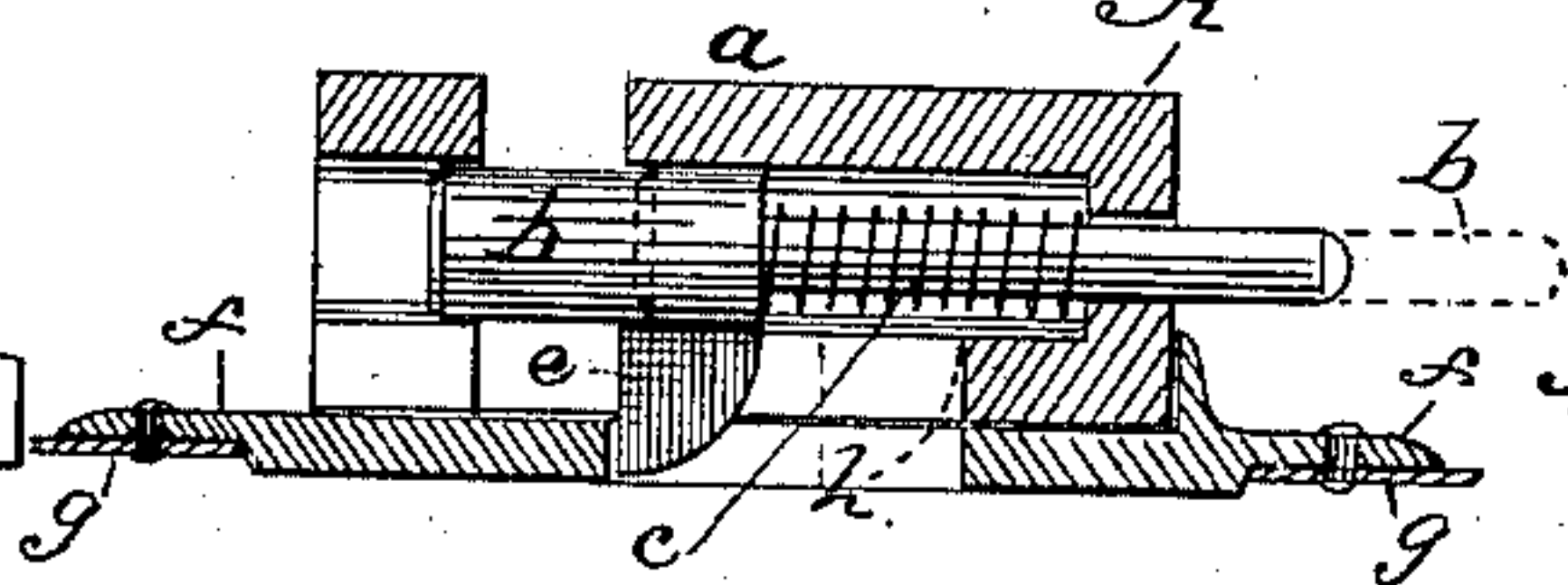
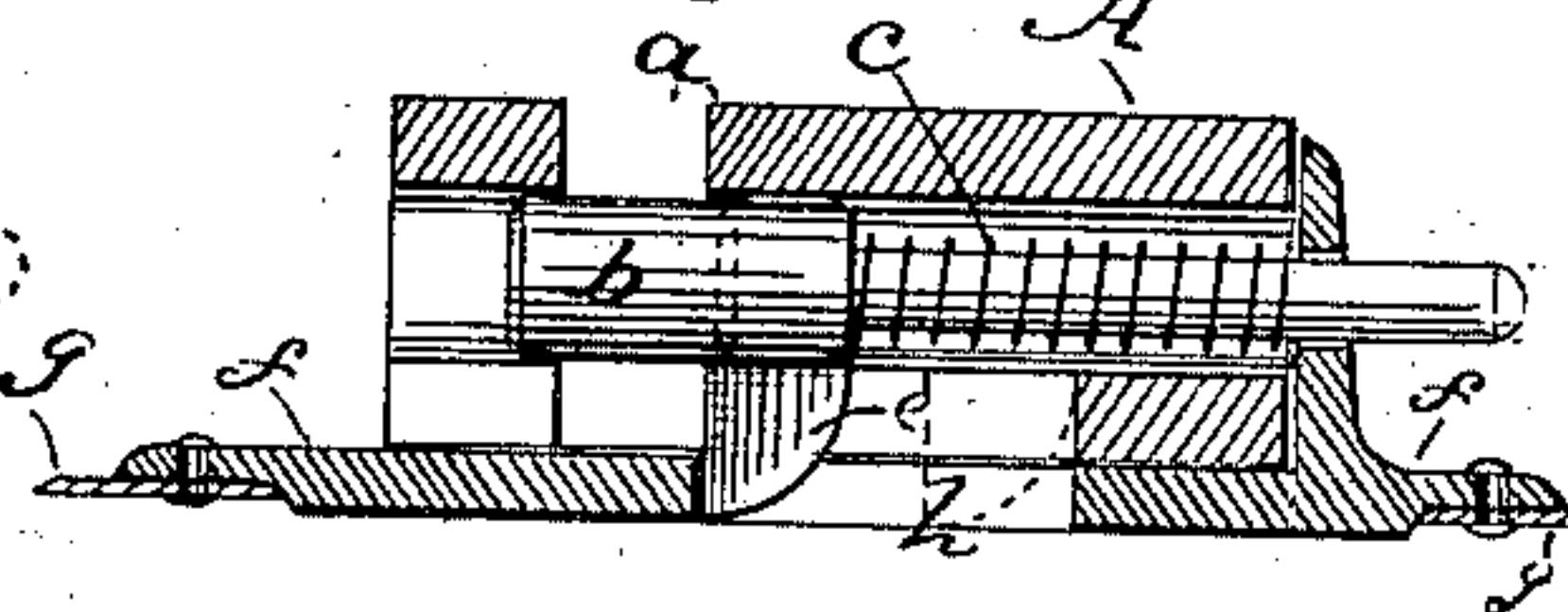


Fig. 6.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

THEOPHILUS ARNDT, OF FLORIN, ASSIGNOR TO HIMSELF, AND WILLIAM SCHOLING, OF MOUNT JOY, PENNSYLVANIA.

## STOCK-RELEASING DEVICE.

SPECIFICATION forming part of Letters Patent No. 324,742, dated August 18, 1885.

Application filed February 6, 1885. (No model.)

*To all whom it may concern:*

Be it known that I, THEOPHILUS ARNDT, a citizen of the United States, residing at Florin, in the county of Lancaster and State of Pennsylvania, have invented certain new and useful Improvements in Stock-Releasing Devices, of which the following is a description.

My invention is an improvement in that particular class of stock-releasing devices which are adapted for operating independently or collectively and simultaneously, so that the animals secured by said devices may be released independently and separately or simultaneously, as desired.

The improvement consists in certain features of construction hereinafter described, and specifically indicated in the claims.

In the accompanying drawings, Figure 1 is a view of a stable, showing the arrangement of my improved releasing device as in practice. Fig. 2 is a perspective view of the device enlarged and attached to a bar that extends through the stable. Fig. 3 is a perspective view of one of the cast-metal plates forming part of the releasing-bar. Fig. 4 is an end view of one of the castings, in which is located the spring-bolt that secures or releases the chain-ring. Figs. 5 and 6 are detail longitudinal sections.

The individual fastening and releasing devices are indicated by the letters A A' and the bar for operating all of them simultaneously by letter B. These parts A A' B are attached by screw-bolts and staples (or other preferred means) to the front of a manger, C. Each releasing device A A' is composed (see Figs. 4, 5, 6) of a casting or socket, *a*, a sliding bolt, *b*, and spring *c*. These several parts are constructed and connected as follows: The socket *a* is a casting having a flat base with a lengthwise recess for the part *f* of bar B, also a raised central portion provided with a longitudinal bore and slot to receive the bolt *b* and spring *c*, also with a transverse slot to receive the tie-ring D, attached to a chain, (not shown,) which is in practice passed around the neck of each bullock or other animal which it is desired to secure. Each bolt *b* has a lug or nose, *e*, Figs. 5, 6, that projects inward and works in the lengthwise slot *h* of the

castings *f*. The springs *c* encircle the right-hand portion of the body of said bolts *b*, and the portions of the latter which project through the sockets *a* serve as finger-holds. It will be seen that by drawing the bolts *b* to the right against the tension of the springs *c* the chain-rings D may be either secured or released, as desired.

The releasing-bar B is composed of the flat cast-metal plates *f* and connecting-strips *g*. Said castings *f* are each provided with a lengthwise slot, *h*, to receive the bolt-lug *e*, as before described, and with a right-angular lug, *i*, having a hole to receive the body of the bolt. The plates *f* work in the recesses in the base of the sockets or castings A A', and their slots *h* are of sufficient length to allow the bolt-lugs *e* the play required for the independent action of the bolts *b*, as illustrated in dotted lines, Figs. 5 and 6; but the bolt-lugs *e* are normally in contact with the end walls of such slots *h*, so that when the bar B is drawn to the right the bolts *b* are drawn back and all the chain-rings D released simultaneously, as will be understood by reference to Figs. 2 and 5.

When the bar B is released, it will be again drawn to the left by the spring of the bolt *b* in the left-hand casting, A', which presses against the inner side of the said casting, whereas the springs *c* of all the other bolts project through holes in the castings A, and are in contact with the lugs *i* of plates *f*. These lugs *i* thus serve not only as points of resistance for the springs *c*, but also as stops for the bar B, to arrest its motion when retracted to the left, and this is the most important feature of my invention.

The construction of the bar B of several independent but connected parts—to wit, castings *f* and sheet-metal strips *g*—suberves economy, in that a casting, *f*, may be easily and cheaply supplied and inserted in place of one that chances to become broken.

A ring is affixed to the end of the bar B; but a hand-lever may be employed to operate it, if required.

I do not claim, broadly, the combination of a sliding slotted plate with a sliding bolt and spring acting on the same; but

What I claim is—

The combination of the plate *f*, having lengthwise slot *h* and the right angular apertured stop-lug *i*, with the socket *A*, recessed  
5 on the under side, and bored and slotted, as specified, and the bolt *b*, having lug *e* and spring *c*, encircling it, and projecting through

the end of said socket, so as to act against the lug *i*, all as shown and described.

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Witnesses:

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