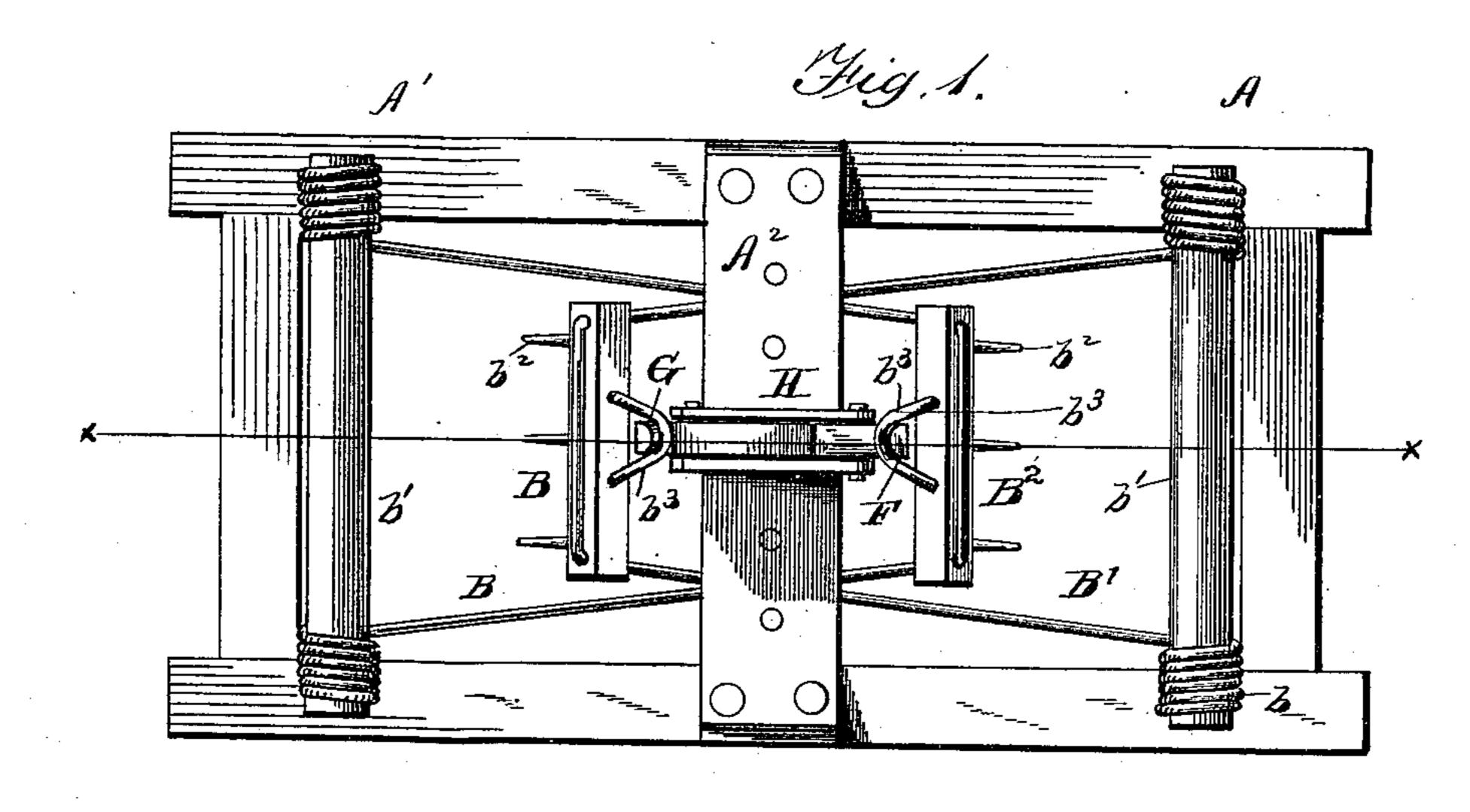
(No Model.)

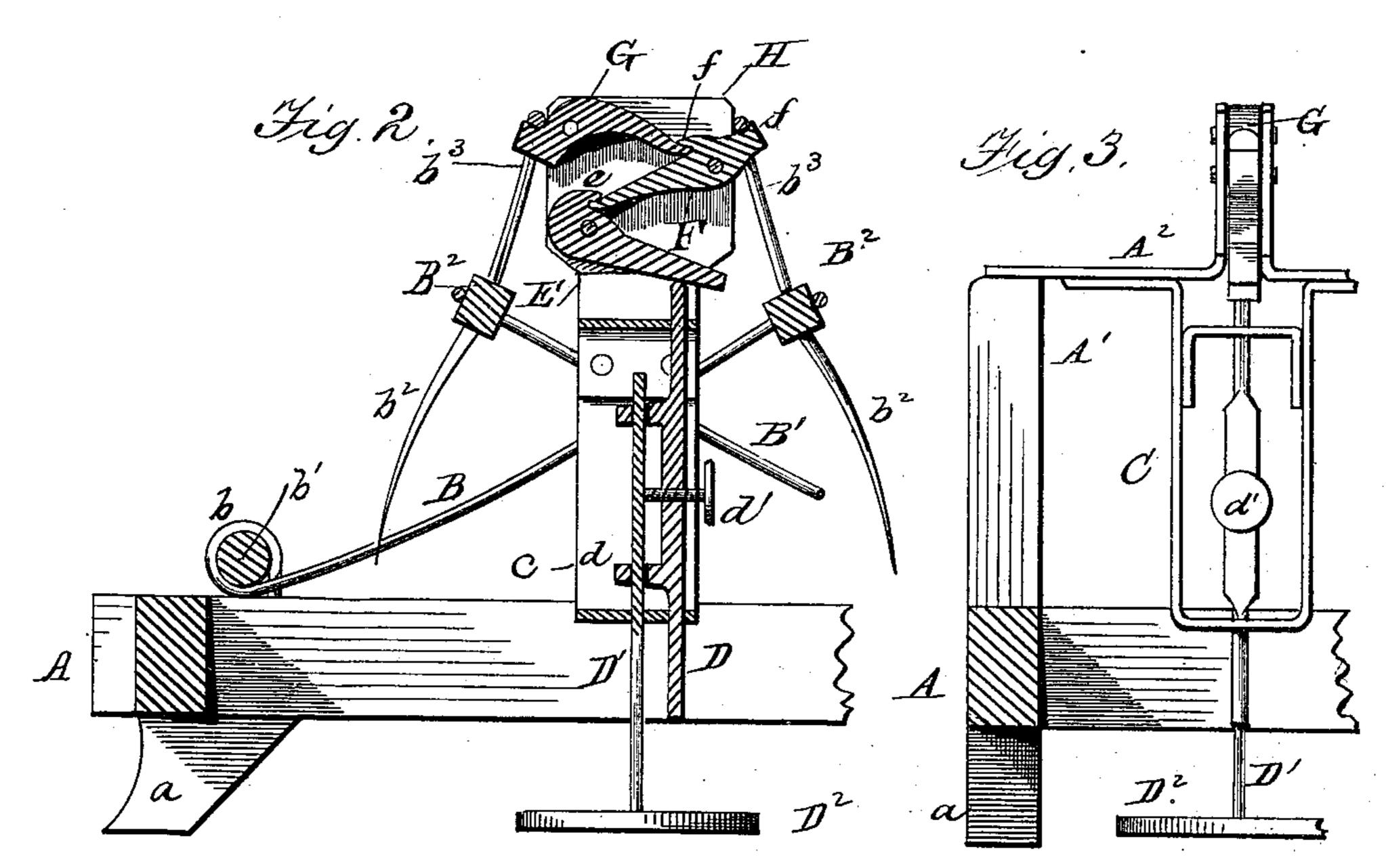
E. BILLS.

MOLE TRAP.

No. 332,133.

Patented Dec. 8, 1885.





attest: MA, H. Knight S.O. Edmonds Enventor: Elias Bells per Edser Brod attys

United States Patent Office.

ELIAS BILLS, OF MACY, INDIANA.

MOLE-TRAP.

SPECIFICATION forming part of Letters Patent No. 332, 133, dated December 8, 1885.

Application filed September 22, 1885. Serial No. 177,861. (No model.)

To all whom it may concern:

Be it known that I, ELIAS BILLS, a citizen of the United States, residing at Macy, in the county of Miami and State of Indiana, have invented certain new and useful Improvements in Mole-Traps, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to that class of moleto traps in which the fatal mechanism is set into
operation by the passage of the mole in the
ground; and the novelty consists in the construction, arrangement, and adaptation of
parts, as will be more fully hereinafter set
forth, and specifically pointed out in the claims.

I provide spears or darts which approach the animal from opposite directions simultaneously, and I provide such holding and tripping mechanism that both these sets of spears 20 are set in motion at the same moment.

The invention is illustrated in the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a top plan view. Fig. 2 is a central longitudinal section, showing both sets of spears set for use and held by peculiar triggers. Fig. 3 is a transverse section with parts in elevation.

Referring to the drawings, A designates the 30 main frame, having short supports a, and standards A', with a transverse cross-bar, A2. These parts constitute the frame of the machine. Secured at b to the bars b', arranged transversely near each end of the main frame, are 35 two spring-frames, B and B', which extend in opposite directions past the center of the main frame and the standards A' thereof. Each spring-frame carries a head, B2, each armed with independent spears b^2 , curved to incline 40 inward. When in a normal position, these spears interlock with each other beneath the center of the machine. When the trap is set, they occupy the position shown in Fig. 2, each being held against its spring force by a sepa-45 rate trigger. From the top of each spear-head B^2 extends a loop or hook, b^3 . The loop b^3 , which controls the frame B', is engaged over one end of a trigger, G, pivoted at g in the vertical central frame, H, the opposite end of said 50 trigger G being engaged in a hook, f, formed in the upper surface of a trigger, F, also piv-

tion contrary to that of the trigger G. This contrary arrangement not only allows the loop b^3 , which controls the spring-frame B, to be engaged over its projecting arm f', but throws its opposite ends within reach of the hook e of a main trigger, E, pivoted in the frame H in a position corresponding to that of the trigger G.

C designates a frame depending from the cross-head A², and within the horizontal plates c and c' of this frame work freely the adjustable slides D and D'. The slide D has perforated ears d, through which the slide D' operates, and a set-screw, d', allows the adjustment of the parts relatively to a disk or plate, D², below and to the free end of the trigger Eabove.

The free ends of the triggers F and G being engaged in their respective notches, and the 70 free end of the main trigger E being supported by the adjustable slide D D', and the disk D of said slide being allowed to rest upon or near the ground over the path of the mole, and the loops b^3 being engaged over their respect- 75 ive trigger-arms, the trap is set for use. The power of the frame B' is controlled by the trigger G being engaged with the trigger F, while the frames B and B' are controlled by the engagement of the trigger F with the trigger E, 80 and the latter with the slide D. The passing mole raises the disk D2, which action liberates the trigger F from its engagement with the hook e by the elevation of the free arm of the main trigger E, and both frames B B' are in- 85 stantly released. Their spring force throws the spears into the soil directly beneath the disk D² to catch and impale the mole.

The operation will be obvious.

I have described the invention as constitut- 90 ing a mole-trap; but many of the important features will be understood to be applicable to other traps. For instance, the two sets of

other traps. For instance, the two sets of spears approaching a given point from different directions, and their respective interlocking triggers, may be applied with advantage to animal-traps of other specific constructions.

Modifications in various of the details may be made within wide limits without departing from the principle or sacrificing the advantages of the invention.

What I claim as new is—

oted in the frame H, but extending in a directive sets of spears arranged to approach a

given point from different directions, and their impelling spring-arms overlapping each other and extending past the center of the main frame in opposite directions to the spear-heads, with means for holding said arms in a set position, a main trigger, as E, and means for tripping said main trigger, as set forth.

2. The combination, with the spring-frames B B', their cross-heads B², spears b², and loops to b³, of the trigger G, the trigger F, having hook f, the main trigger E, having hook e, and means for tripping the several triggers simultaneously, as set forth.

3. The mole-trap described, having the

spring-frames BB', each frame extending past 15 the center of the machine from the point of its attachment thereto to a spear-head, as shown, and having spears b^2 and loops b^3 , the triggers EFG, the slides DD', having adjusting-screw d', and the disk D², all combined and 20 operating as and for the purpose set forth.

In testimony whereof I affix my signature in

presence of two witnesses.

ELIAS BILLS.

Witnesses:
DAVID C. STAR,
JOHN BILLS.