

(No Model.)

G. BRUDER.
CROSSBOW.

No. 577,641.

Patented Feb. 23, 1897.

Fig. 1.

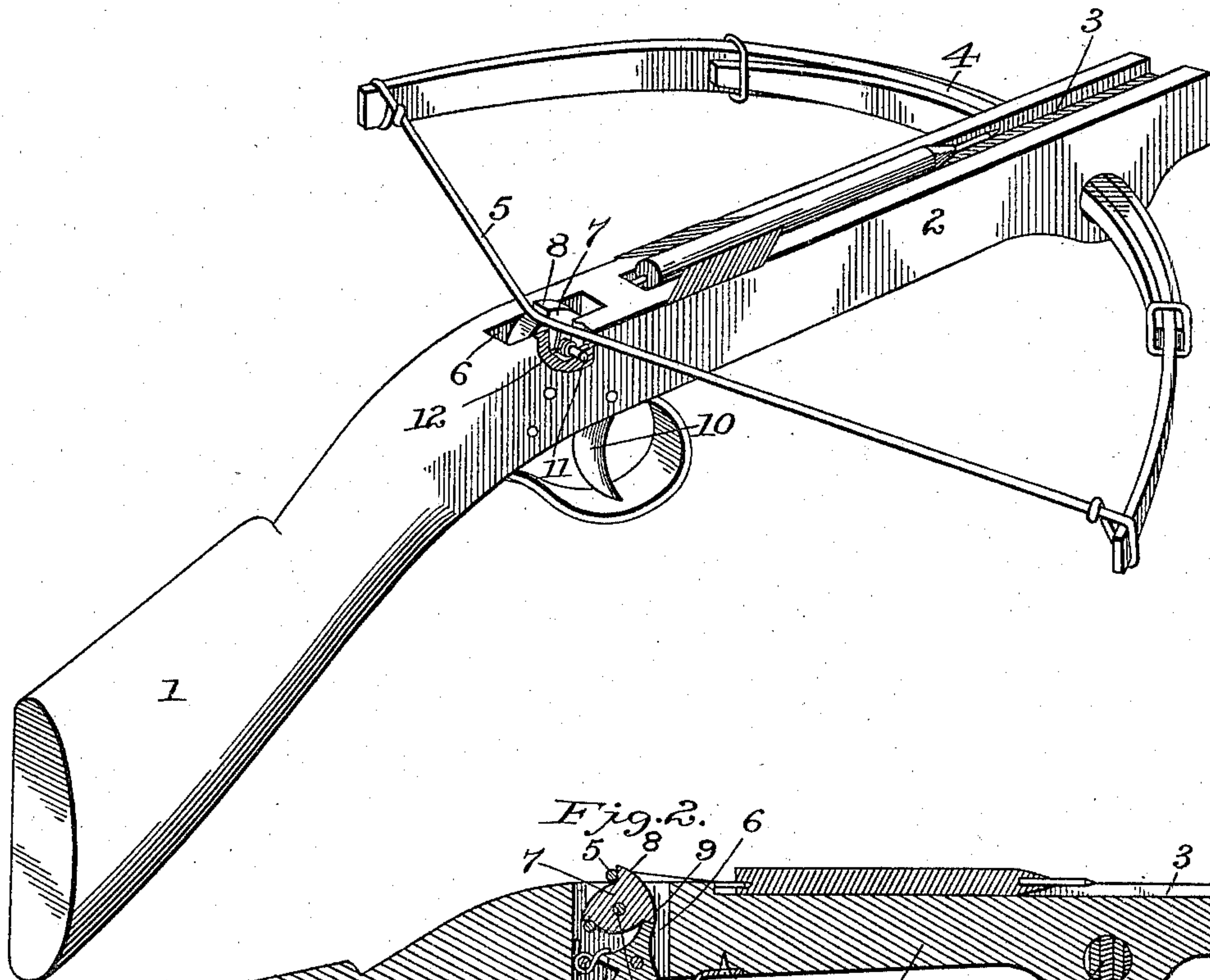


Fig. 2.

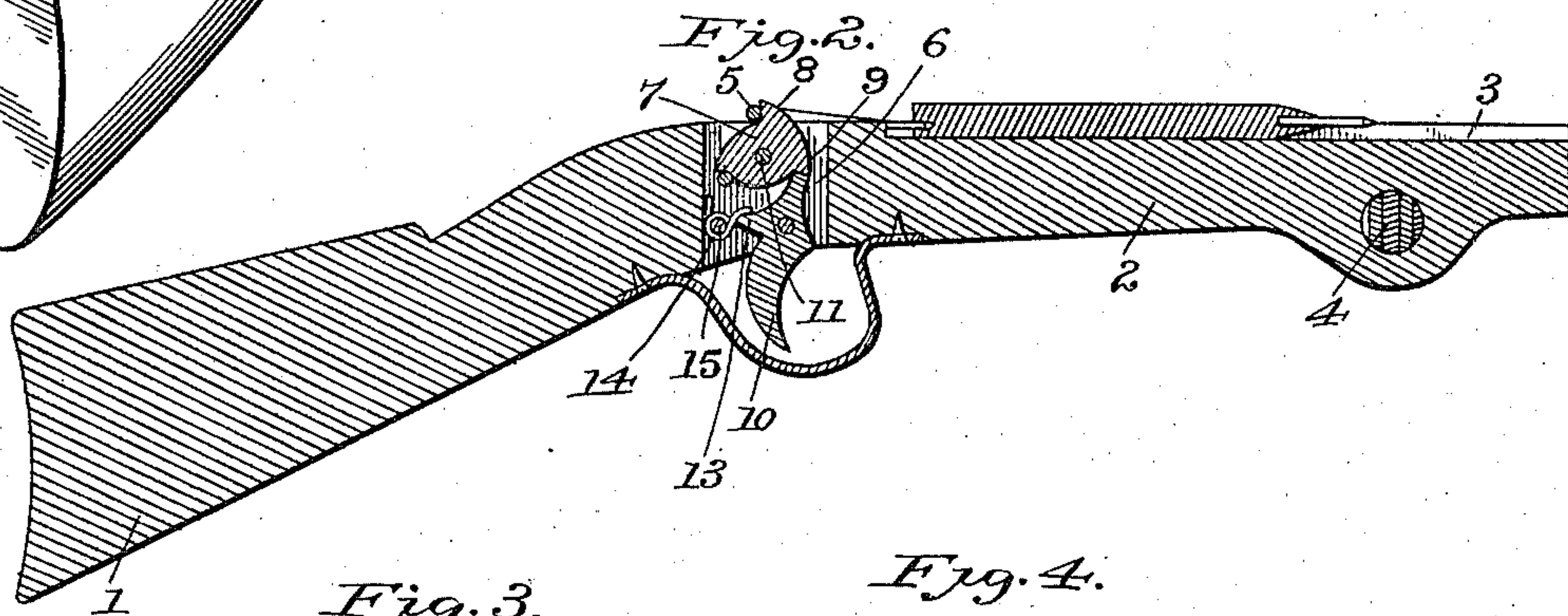


Fig. 3.

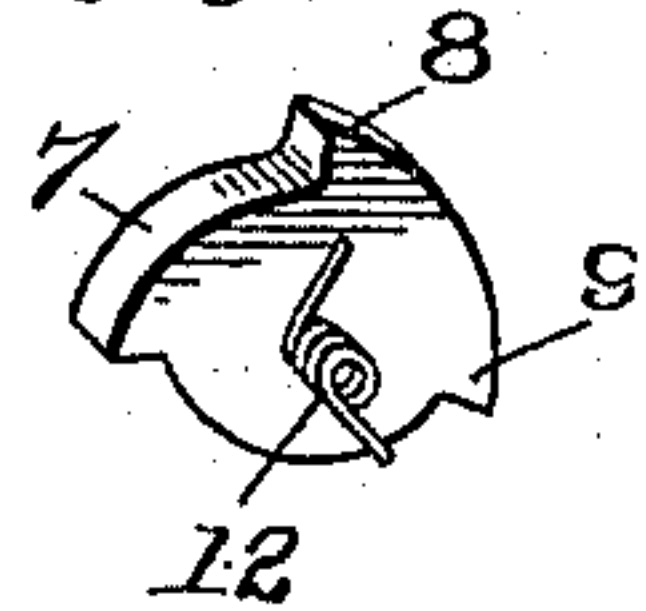
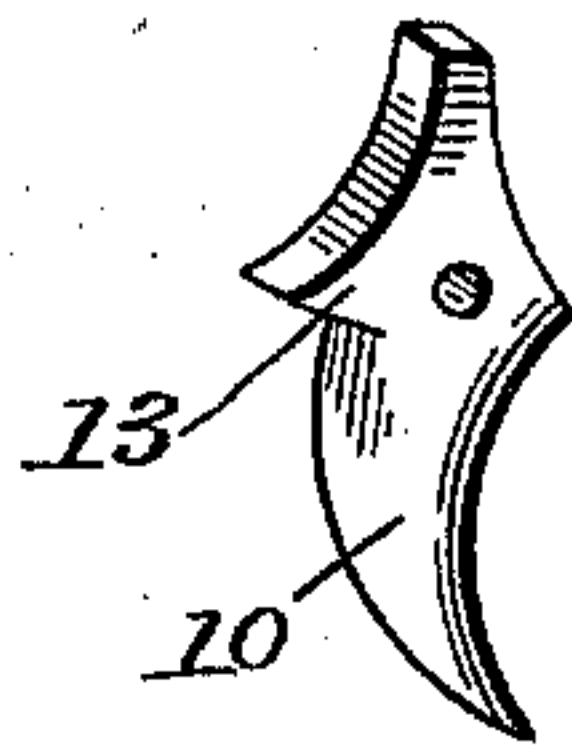


Fig. 4.



Witnesses
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UNITED STATES PATENT OFFICE.

GUSTAV BRUDER, OF ANNAPOLIS, MARYLAND.

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SPECIFICATION forming part of Letters Patent No. 577,641, dated February 23, 1897.

Application filed July 7, 1896. Serial No. 598,301. (No model.)

To all whom it may concern:

Be it known that I, GUSTAV BRUDER, a citizen of the United States, residing at Annapolis, in the county of Anne Arundel and State of Maryland, have invented certain new and useful Improvements in Crossbows; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in crossbows, the invention residing particularly in the detent for holding the bow-string in its rearward position and in the means for releasing the same.

The invention consists of a crossbow having the usual stock and barrel, a bow proper secured in the outer end of the barrel, a bow-string, and a detent mechanism consisting of a disk having a shoulder thereon which is adapted to engage the bow-string, a spring for normally urging said disk to its rearward position, and a trigger engaging a second shoulder on said disk.

The invention also consists in other details of construction and combinations of parts, which will be hereinafter more fully described and claimed.

In the drawings forming part of this specification, Figure 1 represents a perspective view of my device. Fig. 2 is a vertical longitudinal section. Fig. 3 is a detail view of the detent-disk. Fig. 4 is a similar view of the trigger.

Like reference-numerals indicate like parts in the different views.

The crossbow is made up of the stock 1, the barrel 2, having a longitudinal groove or recess 3 upon its upper surface, the bow 4, and the string 5. A slot 6 is formed in the stock 1, and in the slot is pivoted a detent-disk 7, having a shoulder 8 upon its upper surface which the bow-string 5 is adapted to engage, and a shoulder 9, just beneath the shoulder 8, against which the upper end of the trigger 10 is adapted to bear. The disk 7 is pivoted upon a shaft 11, which has a coil-spring 12 secured to it, one end of which engages the disk 7 and tends to hold it normally in its raised position. The trigger 10 has a

shoulder 13 upon its rear side, which is engaged by arm of a coil-spring 14, secured upon a pin 15, to urge the lower end of said trigger forwardly and the upper end thereof rearwardly into engagement with the shoulder 9.

The normal position of the parts is as shown in Fig. 1, with the disk 7 in its raised position and the upper end of the trigger 10 engaging the shoulder 9 thereon. The said disk is now held from rotation, and by withdrawing the bow-string 5 the same may be slipped behind the shoulder 8 and held in such position until it is desired to operate the device. A slug or dart is then inserted at the rear end of the groove 3 and the trigger 10 compressed. When this is done, the upper end of said trigger is thrown out of engagement with the shoulder 9, and the pressure of the bow-string 5 is sufficient to move the detent-disk 7 forwardly upon its pivot, propelling the slug or dart forwardly from the bow. As soon as the string has slipped from the shoulder 8 the detent 7 is thrown back into its normal position by the spring 12, and when the trigger 10 is released the same is thrown into its normal position by the spring 14. The parts are therefore always in operative position.

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

In a crossbow, the combination with the stock thereof having a slot therein, the bow proper and the string thereof, of a detent-disk pivotally mounted in said slot having a shoulder at one point thereon with which said bow-string is adapted to engage, a spring for normally holding said disk in its rearward position, and a pivotally-mounted trigger whose upper end is adapted to engage a second shoulder on said disk, substantially as and for the purpose described.

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

GUSTAV BRUDER.

Witnesses:

LOUIS G. RANDALL,
A. P. SCHELL.