Dec. 14, 1948. L. COLALUCA 2,455,978

SPRING ACTUATED PROJECTOR FOR GAME BOARDS

Filed June 12, 1947 2 Sheets-Sheet 1

Fig. 1.

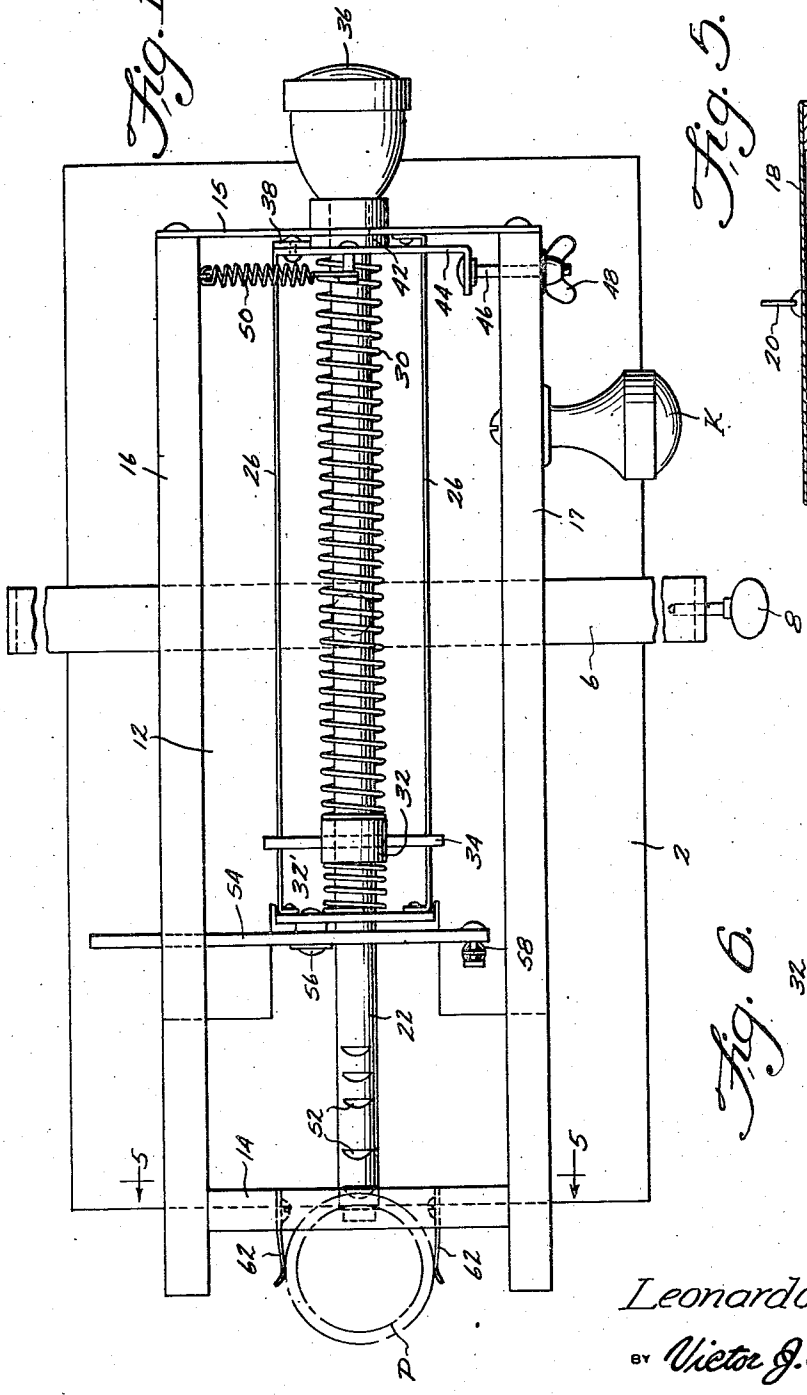


Fig. 5.

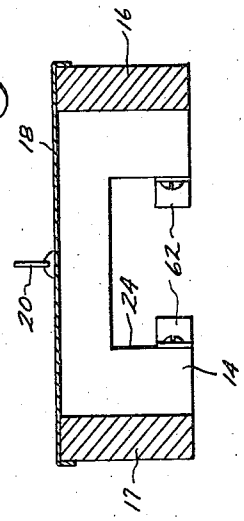
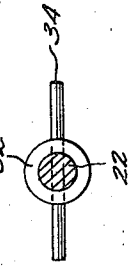


Fig. 6.



INVENTOR.
Leonardo Colaluca,
BY Victor J. Evans & Co.
ATTORNEYS

Dec. 14, 1948. L. COLALUCA 2,455,978

SPRING ACTUATED PROJECTOR FOR GAME BOARDS

Filed June 12, 1947 2 Sheets-Sheet 2

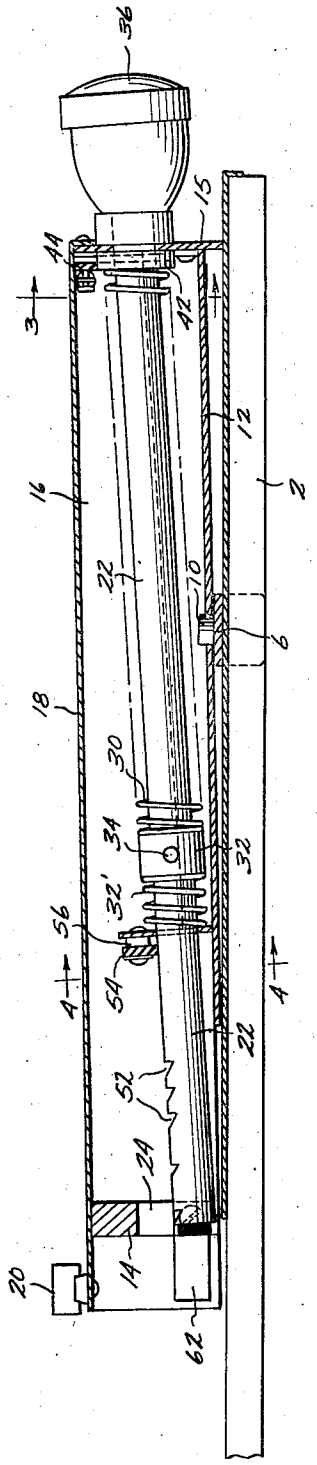


Fig. 2.

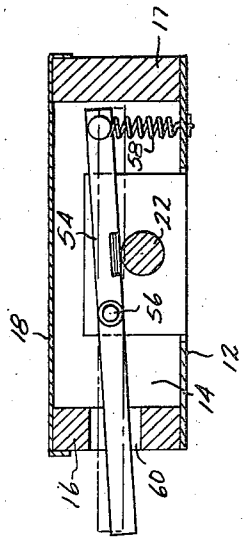


Fig. 4.

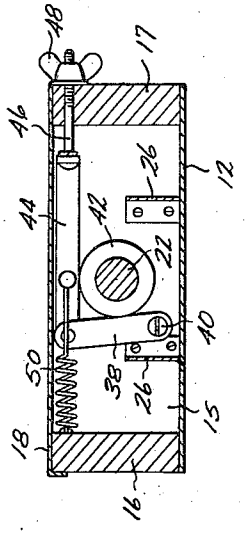


Fig. 3.

INVENTOR.
Leonardo Colaluca,
BY Victor J. Evans & Co.
ATTORNEYS

Patented Dec. 14, 1948 2,455,978

UNITED STATES PATENT OFFICE

2,455,978

SPRING-ACTUATED PROJECTOR FOR GAME BOARDS

Leonardo Colaluca, Somerville, N. J.

Application June 12, 1947, Serial No. 754,186

1 Claim. (Cl. 273—129)

1

My present invention relates to an improved spring-actuated projector for game boards of the spring actuated type adapted for use with game boards and projectiles which may be of the flat disk type as used in various games such as shuffleboard.

The projector of my invention includes a spring rod together with latch means for retaining the rod in cocked position and means for sighting and adjusting the projector to discharge the projectile along a selected course.

In the accompanying drawings I have illustrated one complete example of the physical embodiment of my invention according to the best mode I have thus far devised, but it will be understood that various changes and alterations may be made in the exemplified structure within the scope of the appended claim.

In the drawings:

Fig. 1 is a top plan view of the device of my invention with the cover removed.

Fig. 2 is a longitudinal vertical sectional view.

Fig. 3 is a transverse vertical sectional view at line 3—3 of Fig. 2.

Fig. 4 is a transverse vertical sectional view at line 4—4 of Fig. 2.

Fig. 5 is a transverse vertical sectional view at line 5—5 of Fig. 1.

Fig. 6 is a detail view transversely of the rod.

Referring now to the drawings I have illustrated my present invention as comprising a base 2 having edge flanges 4 and the transverse rib 6 detachably secured by thumb screw 8 has a pivot button 10 co-acting with the bottom 12 of the projector housing having front and rear walls 14 and 15 and side walls 16 and 17 and removable cover 18. The cover has a sight 20 so that the housing may be rotated on the pivot button to aim the projector as desired.

The rod 22 extends through an opening 24 in the wall 14 and the open frame 26 confines coil springs 32' and 30 disposed on opposite sides of the collar 32. The pin 34 through the collar and rod bears against the sides of the frame and prevents rotary movement of the rod.

A knob 36 exterior of the housing provides a ready means of retracting the rod against the spring 30 and the spring 32 cushions the released rod from impact with the frame.

A lever 38 pivoted at 40 bears against a collar 42 on the rod, and link 44 is adjustable by bolt 46 having wing nut 48 against the tension of spring 50 to adjust the rod angularly in a substantially horizontal plane.

The rod is notched at 52 to receive the latch lever 54 pivoted at 56 on the frame and spring 58 bears the latch against the rod and into a selected notch until releasing by fulcruming the lever in the aperture 60.

A pair of prongs 62 of spring material are secured to the walls of the opening 24 to receive a projectile P of the flat disc type and in using the projector, the disc P is positioned between the

2

prongs. The rod may be retracted to a desired position and releasably held in its retracted position by means of the latch being in engagement with one of the notches in the rod.

The housing may then be aimed by rotating the housing through knob K and the rod first retracted and then released to strike the arc of the periphery of the disk at the center thereof, and the latch lever may then be tripped releasing the rod and permitting the spring 30 to project the rod into sharp contact with the disk to start it on its course.

Thus the projector rod may be accurately aimed and the disk will be shot from the prongs to the selected target.

Having thus fully described my invention what I claim as new and desire to secure by Letters Patent is:

In a projector, a base, a housing supported on said base and mounted for pivotal movement about a vertical axis, a cover supported on said housing, a sight projecting from said cover for aiming said housing, a rod extending longitudinally in said housing and slidably supported by the latter, a collar mounted on said rod intermediate the ends of the latter, a frame disposed within said housing and supported on said base, means embodying a pin projecting through said rod and collar and engaging said frame for preventing rotary movement of said rod, manually-operable means embodying a knob on one end of said rod for causing retractile movement of the latter, resilient means embodying a coil spring circumposed on said rod for biasing said rod out of its retractile position, a pair of spaced prongs projecting forwardly from said housing for releasably holding a projectile therebetween, there being a plurality of spaced notches in said rod, a latch lever pivotally connected to said frame for movement into and out of engagement with one of said notches for releasably maintaining said rod in its retractile position, resilient means embodying a coil spring operatively connected to said latch lever for biasing the latter into engagement with one of said notches when said rod is in its retractile position, whereby movement of said latch lever out of engagement with said notch causes said rod to be moved forwardly to thereby strike said projectile.

LEONARDO COLALUCA.

REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
454,603	Phillips	June 23, 1891
2,001,449	Bergstrom	May 14, 1935
2,062,204	Blackmore	Nov. 24, 1936
2,196,549	Colaluca	Apr. 9, 1940
2,207,551	Popper	July 9, 1940