No. 842,659. PATENTED JAN. 29, 1907.

W. HAVERMAN.

TOY.

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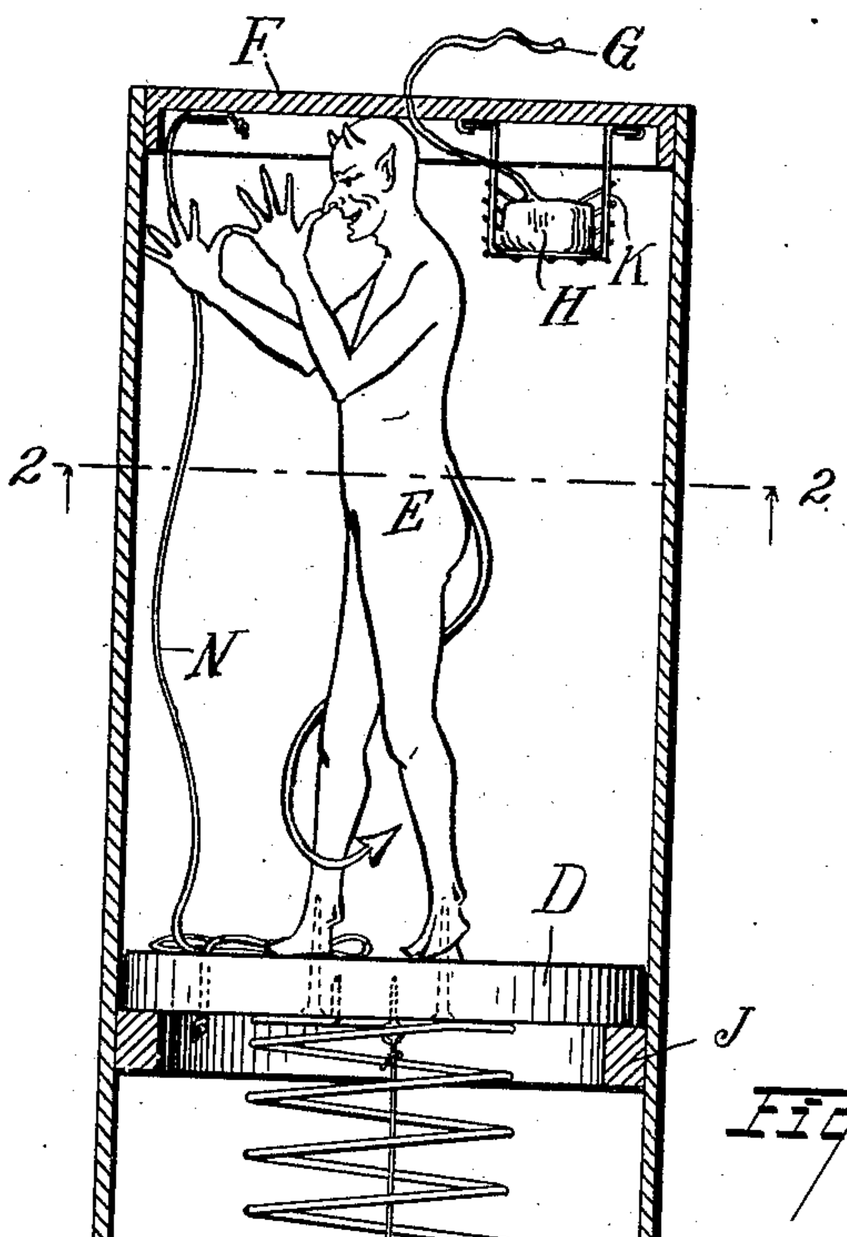

Fig. 1

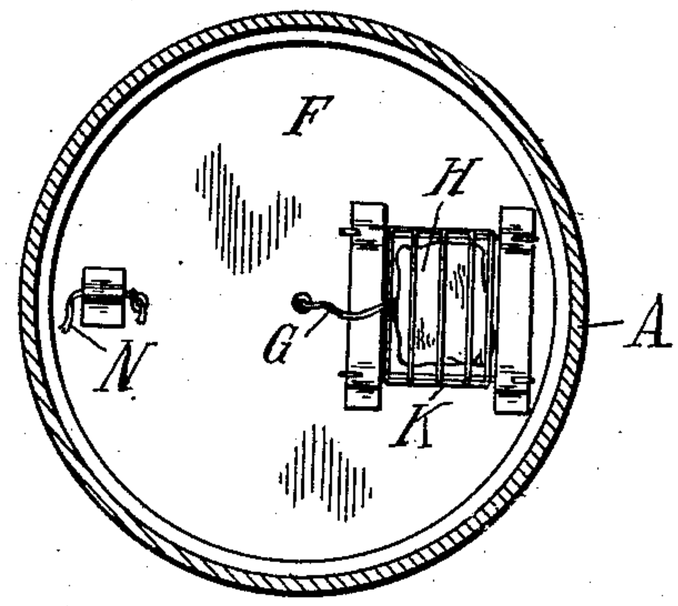

Fig. 2

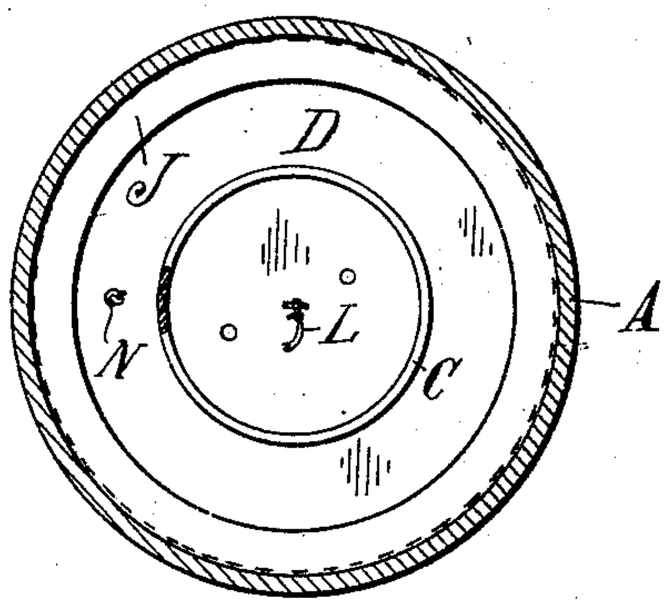

Fig. 3

WITNESSES:

Forman B. West.

Gertrude Myers

INVENTOR,

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BY Bates, Lewis & Hull

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UNITED STATES PATENT OFFICE.

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TOY.

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To all whom it may concern:

Be it known that I, WILLIAM HAVERMAN, a citizen of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented a certain new and useful Improvement in Toys, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings.

The object of this invention is to provide a simple and interesting toy.

More particularly, the article comprised in this invention is an imitation cannon firecracker, so arranged that after the fuse is ignited the top of the cracker is blown off and a suitable figure is forced into view from within the cracker.

The invention is hereinafter more fully explained and its essential characteristics are summarized in the claims.

In the drawings, Figure 1 is a longitudinal section through my imitation firecracker. Figs. 2 and 3 are horizontal sections thereof looking upward, as indicated by the correspondingly numbered lines of Fig. 1.

Referring to the parts by letters, A represents a tube, which constitutes the body of the cracker. This tube may be made of paper or other material, as desired. At the lower end of the tube is a suitable bottom B. Secured to this bottom and rising from it is a long helical spring C, the upper end of which connects with a suitable platform D freely slidable within the tube. Secured on this platform is a suitable figure, preferably something grotesque or comic, as indicated by E. The cover or closer F is fitted within the upper end of the tube and is sufficiently secured thereto to hold the spring depressed with the figure bearing against the under side of the cover. The cover is preferably secured in place by friction with the tube. Extending through an opening in the cover is a fuse G, which connects with a package of explosive H on the under side of the cover. Normally the parts occupy the position shown in Fig. 1, the cover holding the figure depressed.

A suitable stop is provided to limit the descent. As shown, the top consists of a ring J, secured to the inner side of the tube. A cord L, secured to the bottom B and platform D, limits the upward movement.

When the fuse is lighted, the powder or other explosive H exploding blows off the cover, and the spring immediately forces up the platform, exposing the figure to view, to the great amusement of the observers, who have stood at respectful distances expecting a heavy detonation.

To prevent the cover being lost when it is blown off, I may connect it with the rest of the toy by a loose string, such string being indicated in Fig. 1 by N. It is connected at its upper end to the cover and at its lower end to the platform D. There is preferably just sufficient explosive in the package H to insure the blowing off of the cover. To use the toy again, it is only necessary to substitute a new package of explosive with a new fuse and return the cover to place, its friction holding it against the lighter spring action.

Having thus described my invention, I claim—

1. In a toy, in combination, a casing, a closely-fitting cover therefor, a figure within the casing, a spring tending to thrust said figure out of the casing, the cover normally holding the figure in the casing, and an explosive within the casing adapted to blow the cover outward to release the figure and spring.

2. In a toy, the combination of a tubular casing, a figure therein, a spring beneath the figure tending to press it upward, a cover for the casing adapted to hold the figure within the casing with the spring compressed, an explosive on the under side of the cover, and a fuse for the explosive passing through the cover.

3. In a toy, the combination of a casing, a cover therefor, a loose cord normally within the casing connecting the cover with the casing, an explosive within the casing arranged to blow off the cover, and a figure adapted to be exposed to view when the cover is blown off.

4. In a toy, the combination of a longitudinal casing, a cover therefor, an explosive within the casing beneath the cover, a fuse for the explosive passing outwardly through the cover, a figure within the casing, a spring normally pressing said figure upward against the under side of the cover, means for guiding said figure in its movement, and means for limiting the movement thereof.

5. A toy made in imitation of a cannon firecracker and comprising a cylindrical casing having a removable closer at one end, an explosive within the casing adjacent to such closer, a fuse connected with such explosive and passing outwardly through such closer, a figure within the casing, and means to project the same into view through the open end of the casing when the explosive has removed the closer for such end.

In testimony whereof I hereunto affix my signature in the presence of two witnesses.

WILLIAM HAVERMAN.

Witnesses:

ALBERT H. BATES,

S. E. FOUTS.