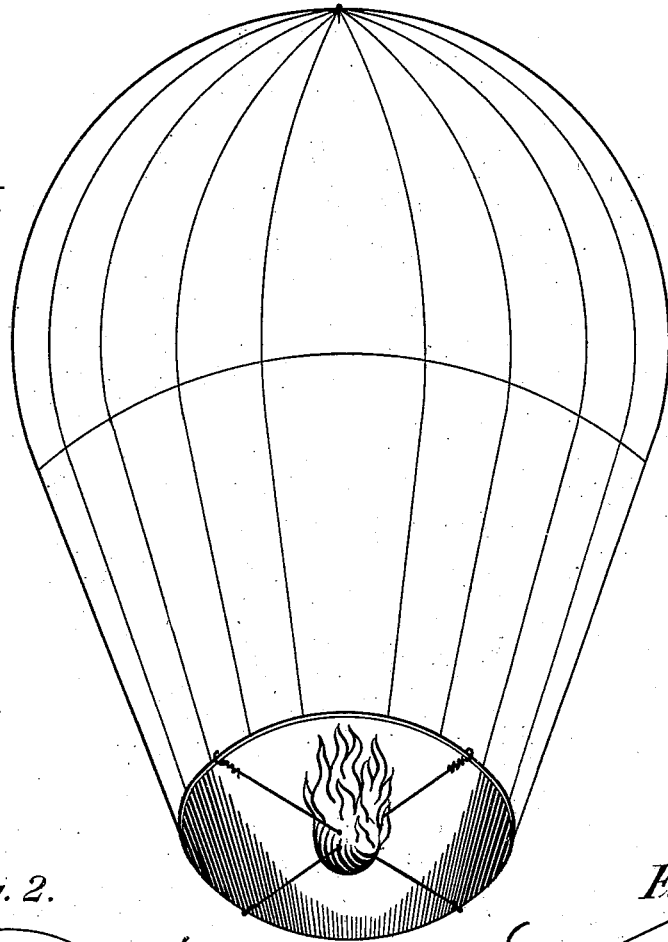


J. J. DETWILLER  
TOY-BALLOON.

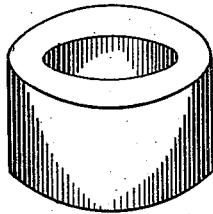
No. 193,599.

Patented July 31, 1877.

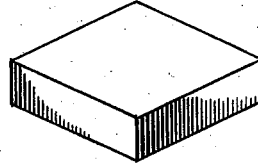
*Fig. 1.*



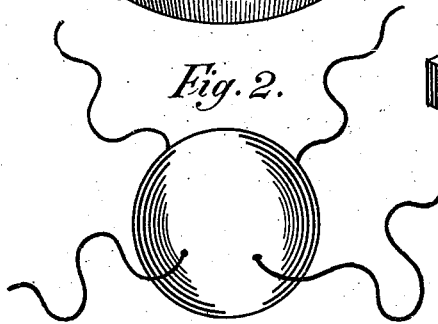
*Fig. 2.*



*Fig. 2.*



*Fig. 2.*



*Witnesses;*  
*Edward C. Besson.*  
*Wm. Mills*

*Inventor;*  
*Jacob J. Detwiller*

# UNITED STATES PATENT OFFICE.

JACOB J. DETWILLER, OF JERSEY CITY, NEW JERSEY.

## IMPROVEMENT IN TOY BALLOONS.

Specification forming part of Letters Patent No. **193,599**, dated July 31, 1877; application filed May 11, 1877.

*To all whom it may concern:*

Be it known that I, JACOB J. DETWILLER, of Jersey City, Hudson county, New Jersey, have invented a new and useful Improvement in Toy-Balloon Ammunition, of which the following is a clear, full, and exact description, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a balloon ready for ascension, and Figs. 2 the ammunition before attachment.

Toy balloons made in the usual way have a quantity of sponge, cotton, hemp, or other fibrous substance attached to the mouth by cross-wires, and the operator is instructed to saturate this ammunition with alcohol, spirits of turpentine, or oil. This process is inconvenient, requires skill and careful management, and often leads to failure and disappointment.

The object of my invention is to furnish an

ammunition that is complete in itself, and only requires to be ignited.

I take felt, cotton, or other fibrous materials, saturate the same in melted paraffine, rosin, wax, or other dry hydrocarbon, form it into convenient shape, and, when cold, attach the same, in the usual way, to the mouth of the balloon, and fold the latter in convenient shape for commercial use.

Having thus explained my invention, that which I claim as new, and which I desire to secure by Letters Patent, is—

The ammunition for fire-balloons herein described, consisting, essentially, of a mass of cotton, felt, sponge, or similar fibrous or porous substance, saturated with paraffine or other dry hydrocarbon, as set forth.

JACOB J. DETWILLER.

Witnesses:

CHAS. G. STREET,  
CHAS. CROWELL.