

A. A. PONS.
PUNCHING MACHINE.
APPLICATION FILED DEC. 14, 1910.

1,007,311.

Patented Oct. 31, 1911.
2 SHEETS—SHEET 1.

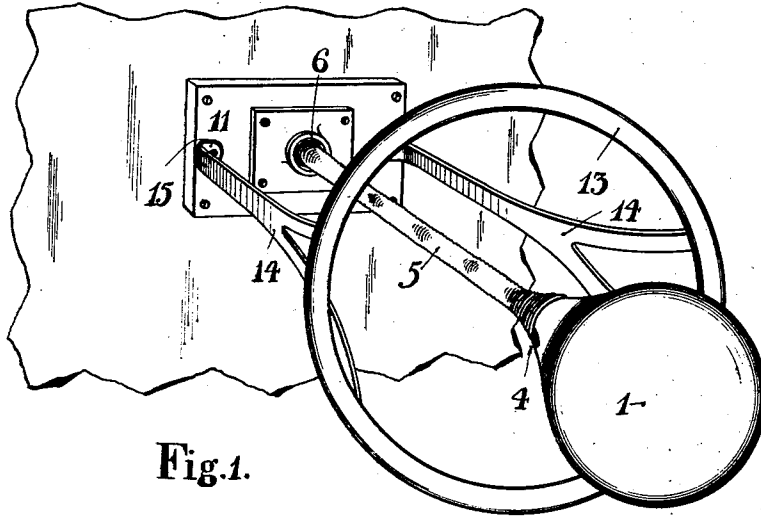


Fig. 1.

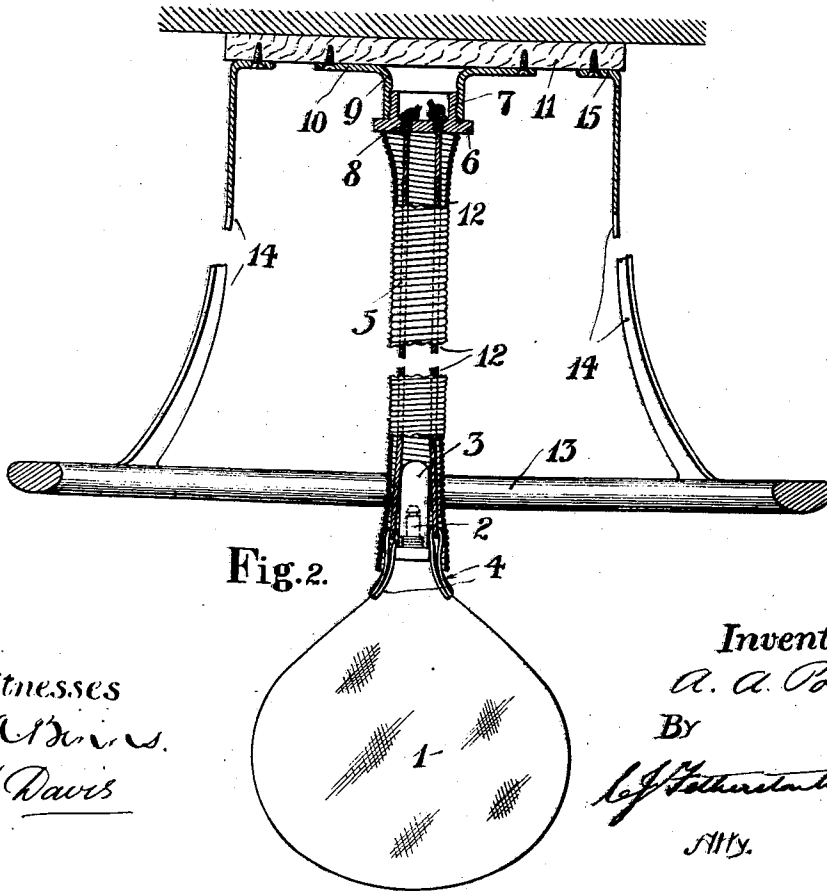


Fig. 2.

Witnesses
M. Davis
H. Davis

Inventor
A. A. Pons.

By

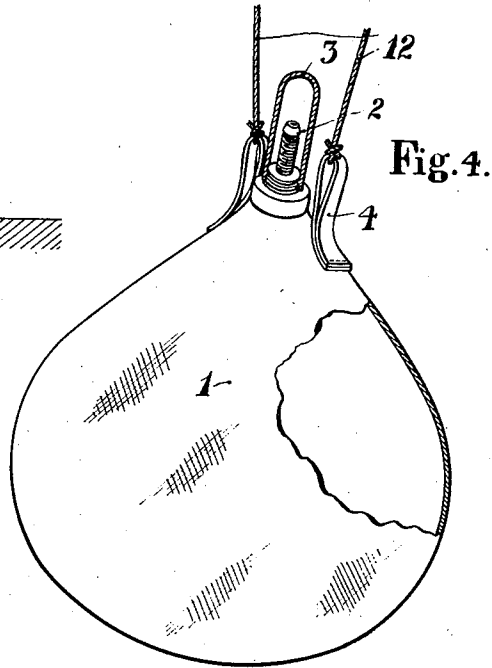
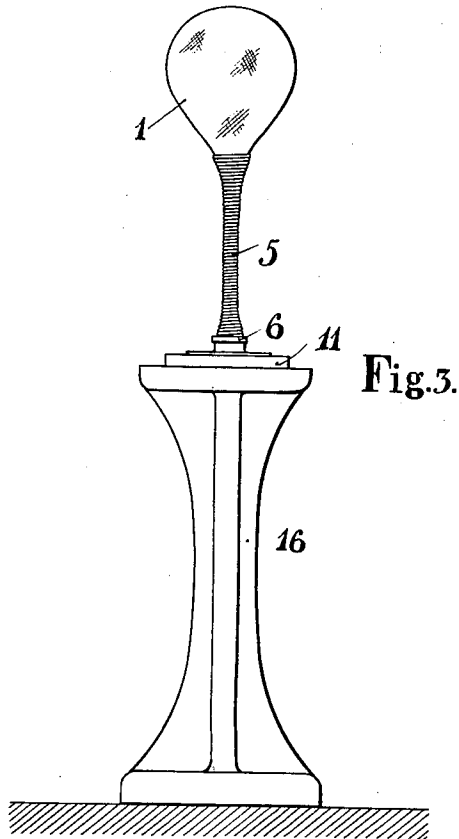
W. H. Hetherington
Att'y.

A. A. PONS.
PUNCHING MACHINE.
APPLICATION FILED DEC. 14, 1910.

1,007,311.

Patented Oct. 31, 1911.

2 SHEETS—SHEET 2.



Witnesses

J. Davis.
A. Davis.

Inventor

By *A. A. Pons.*

E. C. Hurst
ATTY.

UNITED STATES PATENT OFFICE.

ARTHUR AUBRIOT PONS, OF BROOKLYN, NEW YORK.

PUNCHING-MACHINE.

1,007,311.

Specification of Letters Patent.

Patented Oct. 31, 1911.

Application filed December 14, 1910. Serial No. 597,272.

To all whom it may concern:

Be it known that I, ARTHUR AUBRIOT PONS, a citizen of the United States of America, and resident of 8645 Bay Fifteenth street, Bath Beach, in the city of Brooklyn, in the State of New York, United States of America, have invented certain new and useful Improvements in Punching-Machines, of which the following is a specification.

The invention relates to improvements in punching machines, as described in the present specification and illustrated in the accompanying drawings that form part of the same.

The invention consists essentially in the novel construction and arrangement of parts, whereby the position of the bag is maintained by a resilient stem supporting said bag and whereby the bag is formed of a single skin of textile material.

The objects of the invention are to devise a cheap and durable form of punching bag apparatus and generally to simplify the arrangement of parts in such devices and incidentally increase their efficiency.

In the drawings, Figure 1 is a perspective view of the apparatus extending out from a wall. Fig. 2 is an enlarged sectional view showing the device supported from a wall or ceiling. Fig. 3 is an elevation of the apparatus supported from a floor. Fig. 4 is a sectional perspective detail of the bag.

Like numerals of reference indicate corresponding parts in each figure.

Referring to the drawings, 1 is the bag of pear-shaped form and made of canvas material, rubber filled or coated with a non-porous substance. 2 is an air valve in the neck of said valve having a suitable cap 3. 4 are loops secured to the outside of the bag at the neck portion thereof.

5 is a comparatively stiff helical spring at one end abutting the plate 6 and at the other end encircling the neck portion of the bag 1, said plate 6 having the threaded flange 7 and cord orifices 8 therethrough.

9 is a socket internally threaded and receiving the threaded flange 7, said socket having the flanges 10 secured to the base 11.

12 are cords at one end secured to the loops 4 and at the other end knotted on the inner side of the plate 6, thus securely holding the neck of the bag 1 within the coils of the helical spring 5.

13 is a rebounding ring supported from

the base 11 by the forked spring arms 14, said arms having the flanges 15 at their inner ends secured to the base 11.

16 is a pedestal on which the base 11 is secured in the use of the bag in a standing position, and in this use of the invention the rebounding ring 13 is not a necessity.

In the use of this invention, the bag 1 is punched with the result that it will readily give to the force of the blow, but will quickly rebound, not only by contact with the rebounding ring but from the nature of the spring stem, which, as has been described, is a helical spring. The rebounding ring to a limited extent resiliently supported also adds efficiency to this device.

What I claim as my invention is:

1. In a punching apparatus, a bag having a neck portion and a valve standing out from said neck portion and a long detachable cap secured over said valve, a base plate, a helical spring at one end abutting said base plate and at the other end inclosing said cap and abutting said neck portion whereby said cap forms a lateral support for the bag, and means extending through the spring for securing said bag, base plate and spring together, thereby supporting the bag.

2. In a punching apparatus, a bag having a suitable neck portion, a helical spring at one end encircling said neck portion, a base plate abutting said spring at the other end, loops secured to said bag and cord members secured to said loops and extending through said base plate and through said helical spring.

3. In a punching apparatus, a rebounding ring, a plurality of spring supporting arms secured to said ring and extending therefrom, a base supporting said arms and a bag resiliently supported from said base centrally in relation to said ring.

4. In a device of the class described, in combination, a bag having a suitable neck portion, a helical spring encircling the neck portion of said bag at one end and forming a resilient stem, a base, a socket secured to said base, a plate abutting the other end of said spring and secured in said socket, flexible members connecting said bag and said plate through said spring, a rebounding ring encircling said stem and spring arms extending from said base and supporting said ring.

5. In a punching apparatus, a bag, a base plate, a helical spring at one end abutting

said base plate and at the other end abutting said bag, means extending through said spring for securing said bag, base plate and spring together, and a pedestal on which
5 said base plate is mounted thereby supporting said bag and spring in an upstanding position.

Signed at the city and district of Montreal, Quebec, Canada, this eighth day of December, 1910.

ARTHUR AUBRIOT PONS.

Witnesses:

G. H. TRESIDDER,
H. DAVIS.