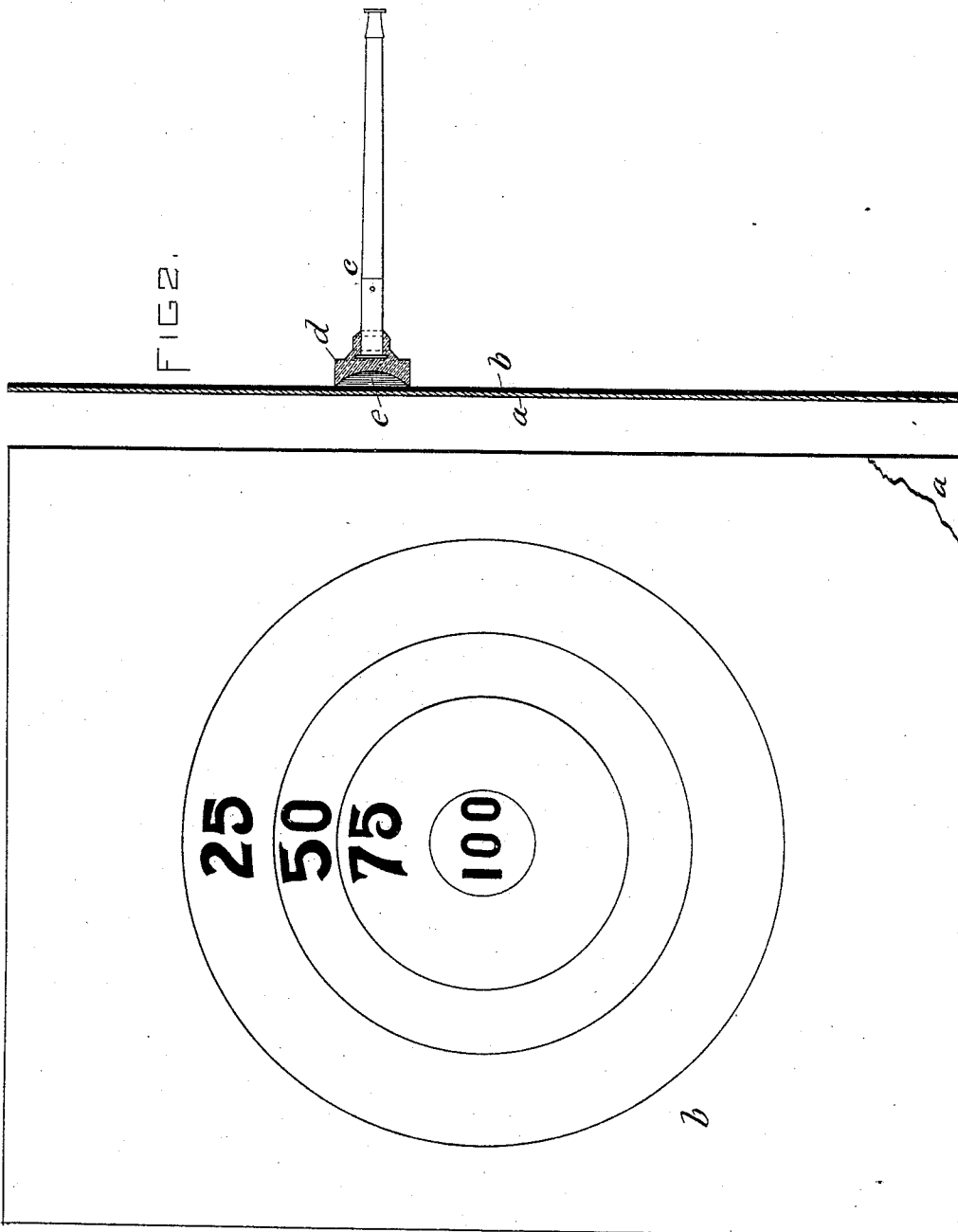


(No Model.)

P. W. PRATT.
GLAZED TARGET.

No. 429,953.

Patented June 10, 1890.



WITNESSES:

Louis Carrie
W. B. Ramsay

FIG. 1.

INVENTOR:

Philip W. Pratt.
Might, Brown & Crossley.
Attys.

UNITED STATES PATENT OFFICE.

PHILIP W. PRATT, OF ABINGTON, MASSACHUSETTS.

GLAZED TARGET.

SPECIFICATION forming part of Letters Patent No. 429,953, dated June 10, 1890.

Application filed August 19, 1889. Serial No. 321,246. (No model.)

To all whom it may concern.

Be it known that I, PHILIP W. PRATT, of Abington, in the county of Plymouth and State of Massachusetts, have invented certain new and useful Improvements in Targets, of which the following is a specification.

My invention is related particularly to targets adapted for use in connection with "vacuum-tipped arrows," so called—that is, arrows provided with an elastic cup-shaped or concaved head, or otherwise so contrived that when the arrow strikes the target the air in the concavity of the head will be exhausted and the arrow held to the target by air compression.

It is the object of my invention to provide a target adapted to be employed as mentioned, which target shall be economical of construction and have a practically air-tight surface, so that when the arrow strikes the target, with the effect of exhausting the air from the concavity of the arrow-head, no air will pass between the surface of the target and the portions of the arrow-head bearing on the same to the said concavity, thus causing the continued adherence of the arrow to the target.

My invention consists of a target provided with a glazed surface, all as hereinafter more fully described, and particularly pointed out in the appended claims.

In the drawings hereto annexed and forming a part of this specification, Figure 1 is a face view of my improved target. Fig. 2 is a vertical sectional view of Fig. 1, showing also a sectional view of an arrow that may be used in connection with the same.

The same letters designate the same features in both views.

In the production of my improved target I construct the body portion *a* of any suitable material, it being essential only that it should be practically smooth, and it may be of the same material as, or different from, the surface *b*. For example, the target may be made of glass or celluloid throughout, or it may be made, as is herein shown and as I prefer to make it, with the body *a* composed of paper or other suitable inexpensive material, having a glazed or varnished surface *b*,

a target of which construction will answer quite as well as one composed of glass, celluloid, or the like, or which may be covered with such material. I may, however, when the target is made of paper, solidify the surface by compression or otherwise, or coat or fill the indentations of the surface with any suitable substance to render the same air-tight with respect to the arrow-head which may strike it.

It is preferred, though it is not essential, to make the target square in front elevation, as shown in Fig. 1, with a series of concentric rings in the center, each of said rings bearing a number to indicate the number of points made in practice with the arrow, the target beyond the series of rings being also made air-tight, so that the arrow will adhere to the glazed surface thereof and indicate that nothing has been made or that a loss in points has been sustained.

The form of the target may be varied without departing from the spirit of my invention, it being requisite only, as before stated, that it should be practically air-tight.

In Fig. 2 is shown an arrow *c*, provided with an elastic head *d*, having a concavity *e*, which will assist in serving to give a clear understanding of the utility of my invention. It is to be understood, however, that my invention is in no sense confined to use in connection with an arrow or device having the construction of that shown in the drawings, since I propose to employ the target in all of the ways and in connection with all of the devices that its capacity will allow.

Having thus explained the nature of my invention and described some of the ways in which it may be constructed and used, I declare that what I claim is—

1. As an improved article of manufacture, the herein-described target, having a body provided with a glazed surface, as and for the purpose set forth.

2. A target having a body composed of paper and provided with a glazed surface, as set forth.

3. The herein-described improved target, consisting of a body provided with a glazed surface and having a central figure or "bull's-

eye," with concentric circles surrounding
said central figure and formed on said glazed
surface, substantially as set forth, said cir-
cles having characters indicating graduation,
5 as stated.

In testimony whereof I have signed my
name to this specification, in the presence of

two subscribing witnesses, this 16th day of
August, 1889.

PHILIP W. PRATT.

Witnesses:

ARTHUR W. CROSSLEY,
W. C. RAMSAY.