

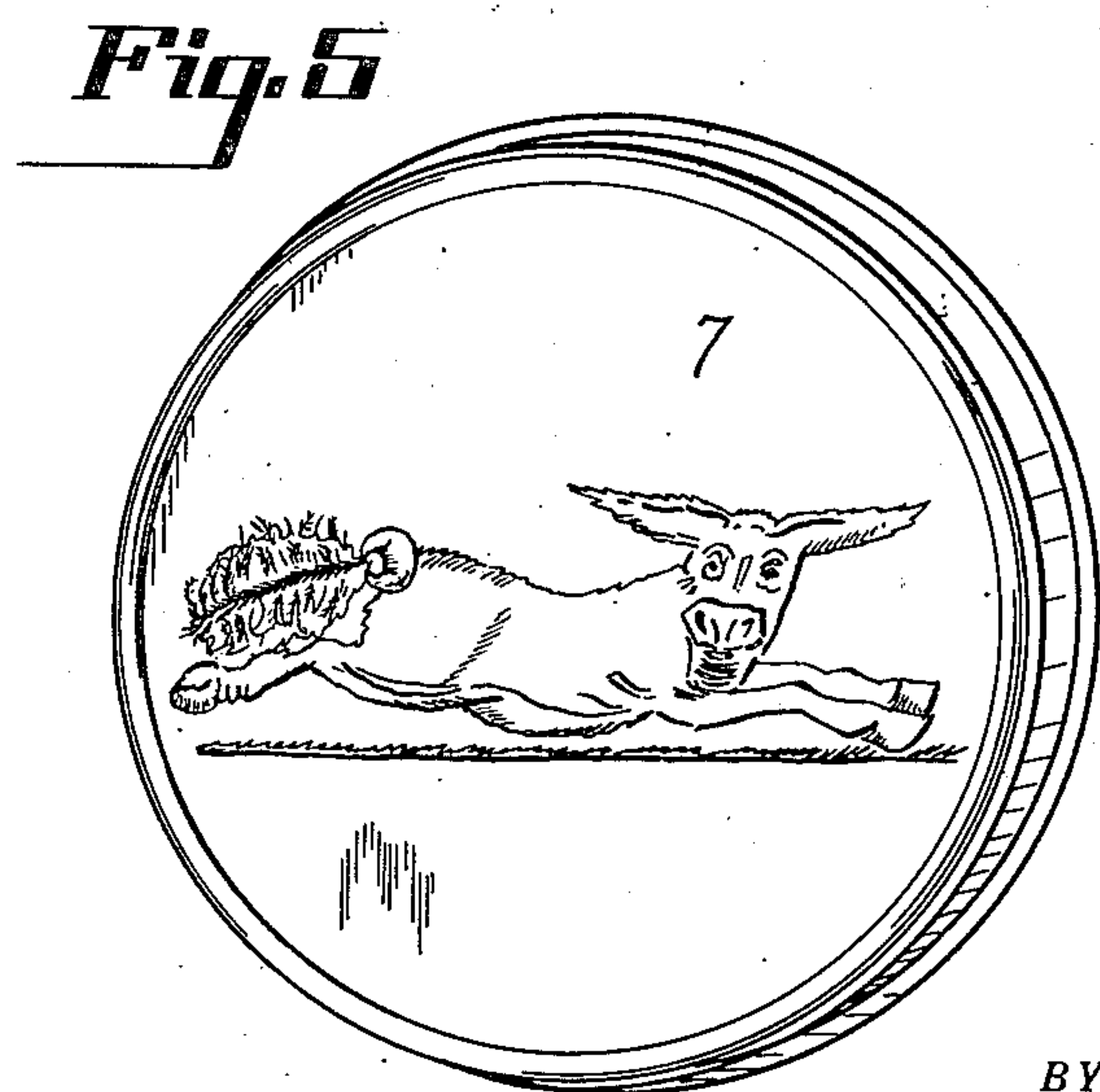
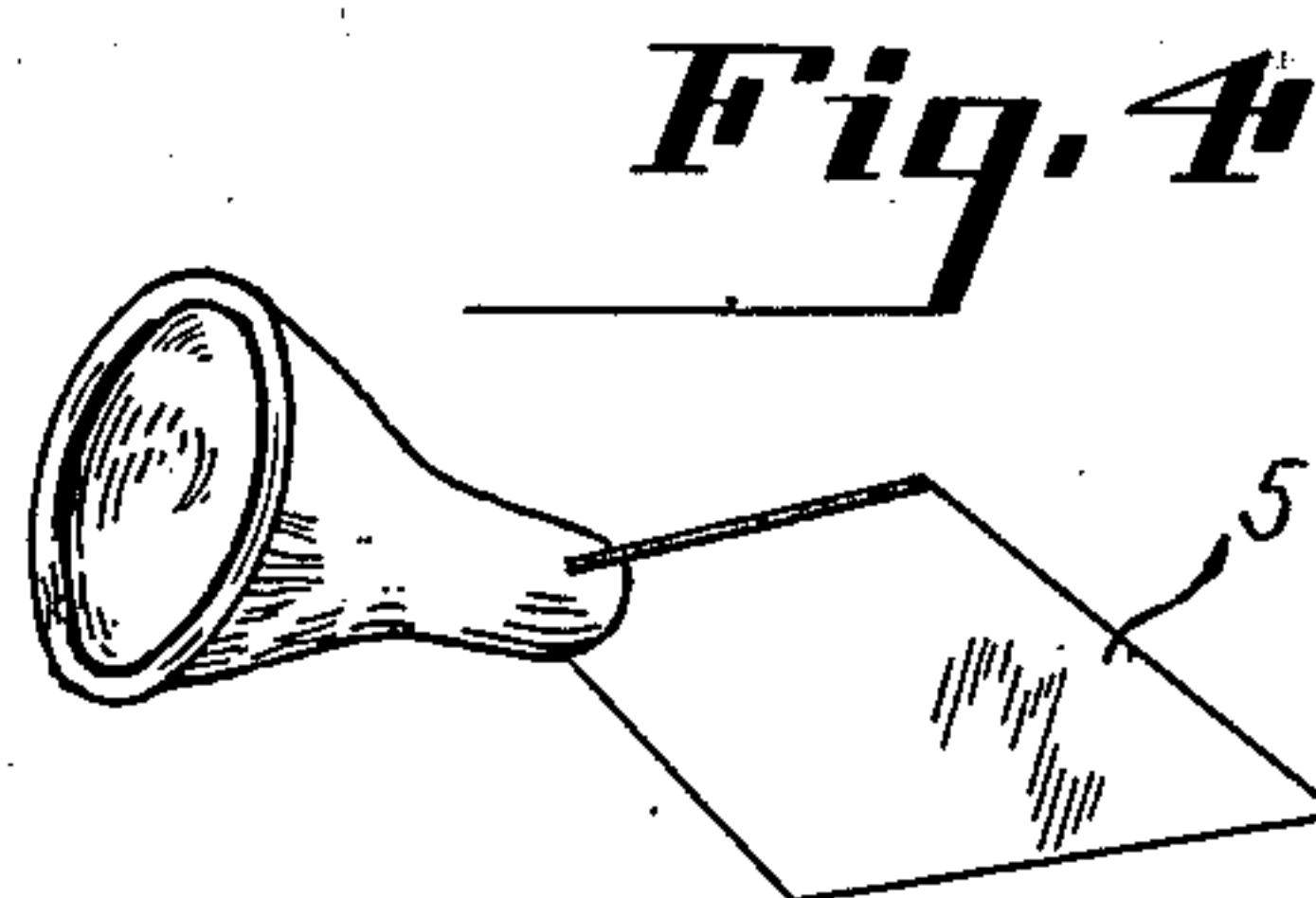
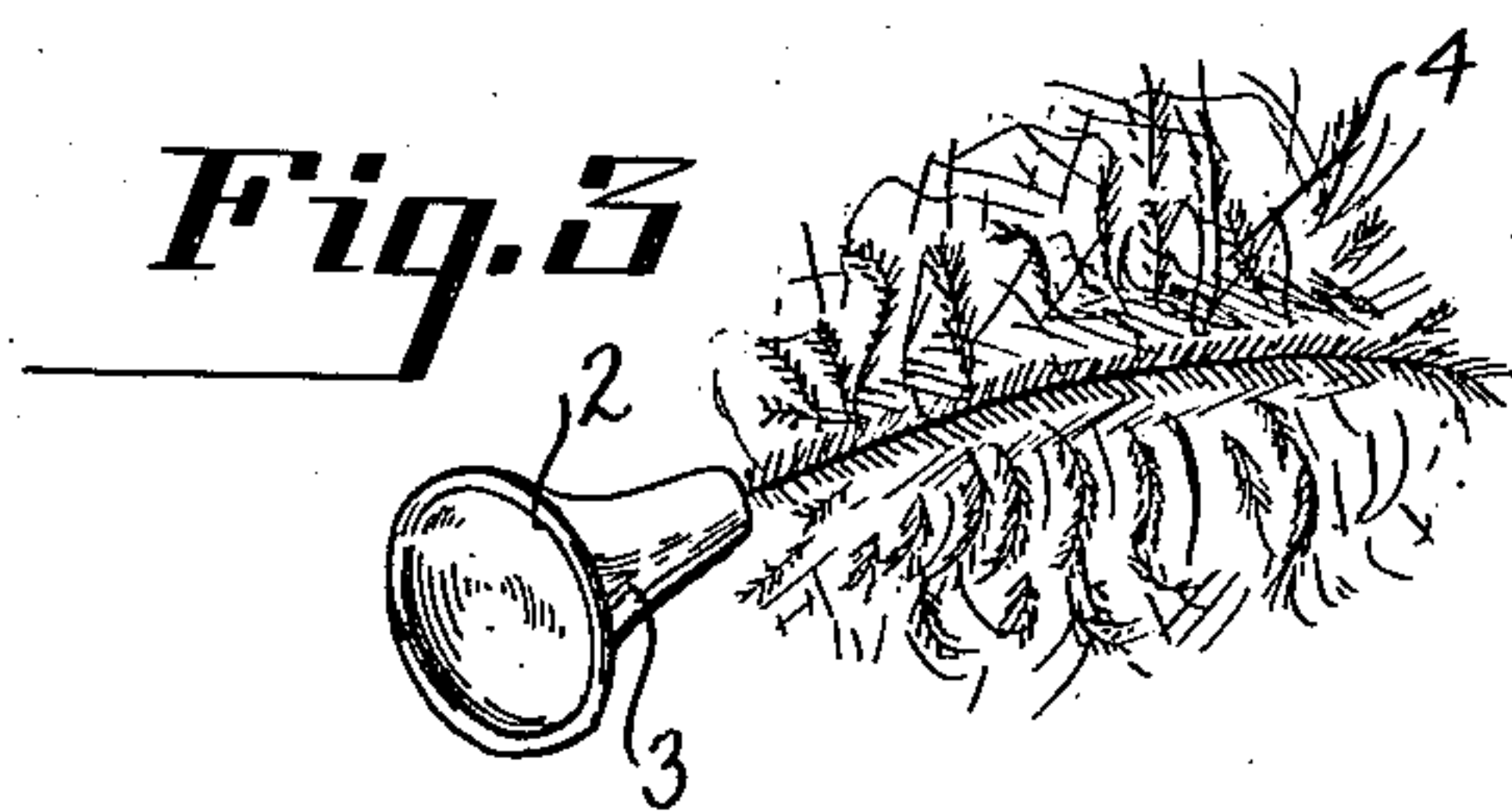
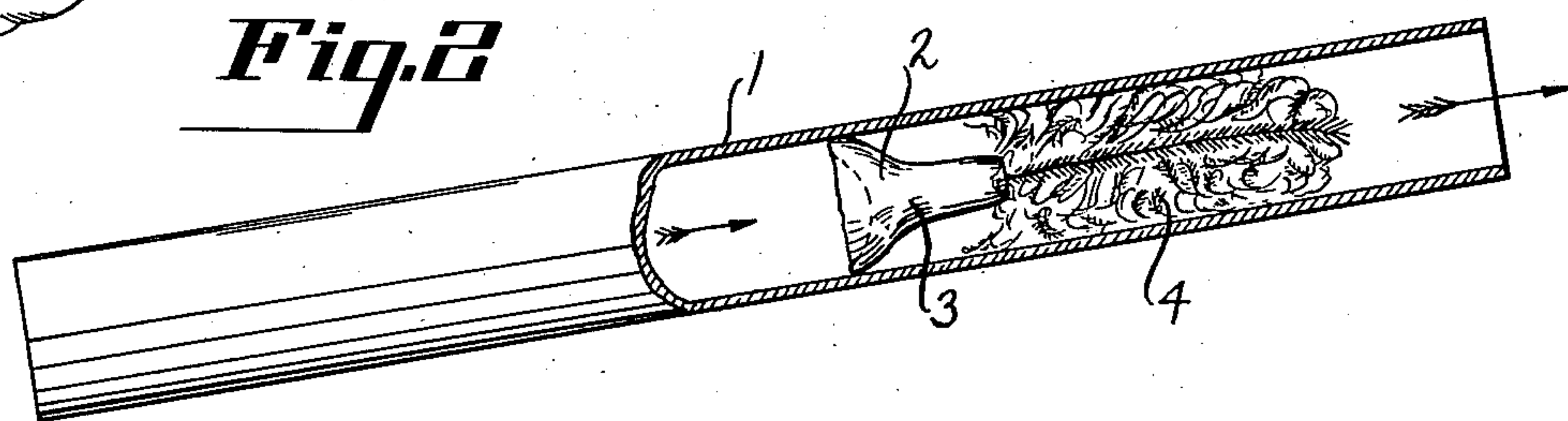
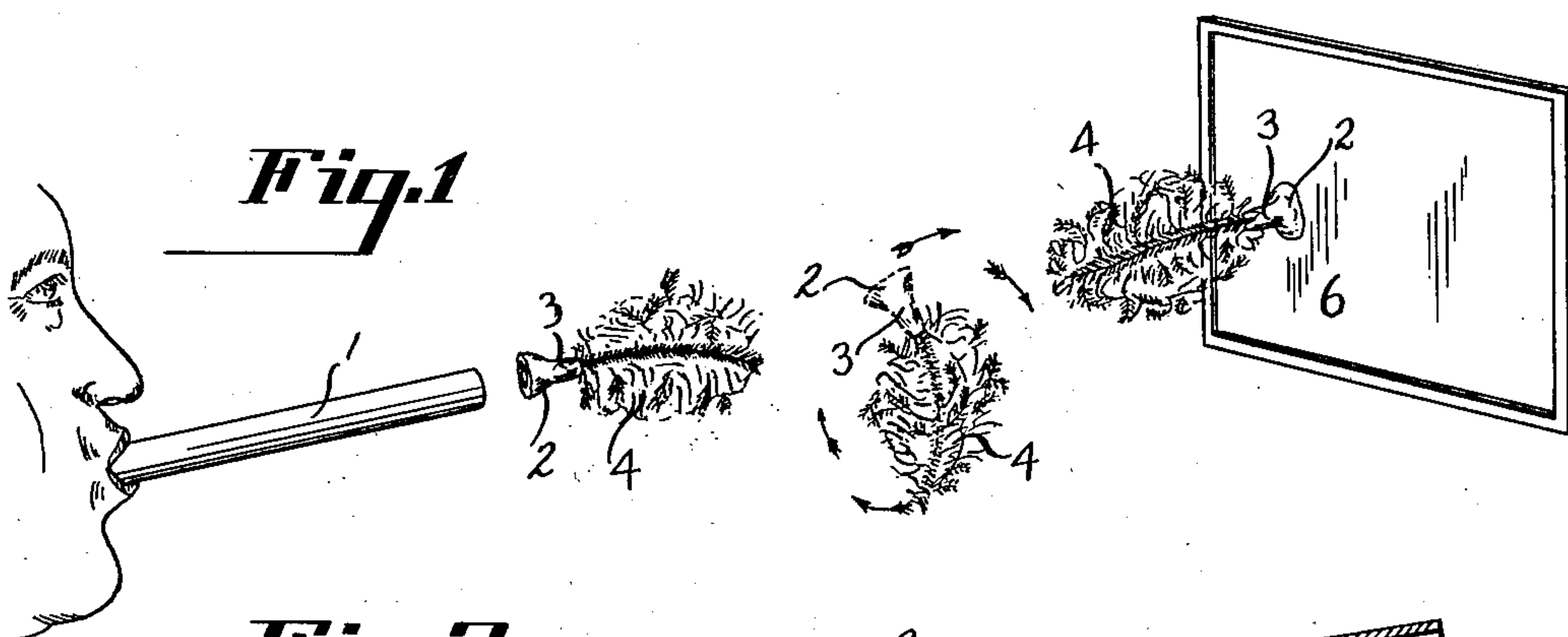
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2,011,749

GAME

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2,011,749

GAME

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4 Claims. (Cl. 273—106.5)

This invention relates to toys and games, and more particularly to a device of the aerial projectile type which is adapted to adhere to a target against which it may be projected. As illustrated in the drawing, the projectile preferably, though not necessarily, comprises a rubber suction cup to which is attached a rudder or "tail" portion and which is adapted to be projected from a blow-pipe in a reverse position, the rudder or "tail" serving to reverse the device while in flight so that it may strike head first upon a target to which the suction cup will adhere.

The object of the invention is to provide a game apparatus or toy which will be simple but attractive and interesting particularly to children, which may be manufactured at a relatively low cost and which will have no part to become broken or which may get out of order.

A further object of the invention is to provide a toy or game device which will develop a high degree of skill and not be dependent merely upon chance, which may be used indoors, and which will not be dangerous nor likely to cause injury to persons nor objects with which the projectile may come in contact.

A further object of the invention is to provide a game apparatus which will necessitate considerable skill to effect the proper placement of the projectile on and in completion of a target design and will afford considerable amusement by the misplacement of such complementary element through lack of skill and the increased grotesqueness of the design.

With the above primary and other incidental objects in view, as will more fully appear in the specification, the invention consists of the features of construction, the parts and combinations thereof, and the mode of operation, or their equivalents, as hereinafter described and set forth in the claims.

Referring to the accompanying drawing, wherein is shown the preferred but obviously not necessarily the only form of the embodiment of the invention, Fig. 1 is a perspective view somewhat diagrammatic illustrating the flight of the projectile from the blow-pipe to the target. Fig. 2 is a detail view, partially in section, illustrating the relation of the projectile within the blow-pipe. Figs. 3 and 4 are detail perspective views of alternative forms of projectile. Fig. 5 is an illustrative view of a target with which the projectile may be employed.

Like parts are indicated by similar characters of reference throughout the several views.

Referring to the accompanying drawing, 1 is

a blow-pipe which may be of metal, wood, or for economy of manufacture is preferably a cardboard tube. The projectile, for use within the blow-pipe 1, comprises a suction cup 2 of soft rubber having a projecting stem portion 3 which is recessed or slotted to receive a rudder or "tail" portion which may comprise a feather 4 or a bit of card-board or paper 5 of any suitable or desired shape. The projectile is forcibly expelled from the blow-pipe 1 by air pressure and is caused to impinge upon a suitable target 6 to which it will adhere due to the suction effect of the concave soft rubber head 2 of the projectile. The projectile is inserted within the blow-pipe in a reverse position, as is indicated in Fig. 2. In this position, the soft rubber head 2 is caused to expand closely into contact with the wall of the blow-pipe by the air pressure and so prevent loss of air around the projectile as would occur if the device was inserted in a reverse position.

Upon the operator blowing forcibly through the pipe or tube 1, the projectile is expelled therefrom with its rudder or "tail" portion foremost. However, air resistance upon the rudder or "tail" portion whether it be merely a feather 4 or a card-board or paper leaf 5 serves to effect a complete reversal of the projectile while in flight, as is illustrated by dotted lines and arrows in mid-position of Fig. 1, so that the projectile uninterruptedly continues its flight and strikes upon the target head first. The force of the impact expels sufficient air from the interior of the concave face of the soft rubber head 2 to cause the projectile to adhere to the surface of the target.

The device may be employed merely as a toy, in which event the projectile may be shot at a wall, a window pane, or any other smooth surface to which the rubber head 2 will adhere by suction. However, to add interest to the game, various figures may be delineated upon the target, some portion of which is to be supplied in completion of the design or figure by the adherence of the projectile.

In Fig. 5 there is shown, merely for illustrative purposes, a target 7 bearing a figure of a mule of grotesque appearance from which the tail of the mule is missing. In such event, the object is to place the feather carrying projectile at the proper point relative to the mule design in representation of the mule's tail and so complete the pictorial design.

The game apparatus is subject to wide variation of design. The game is one of skill and not of chance. The characteristic feature is that of an aerial projectile which automatically reverses

itself while in flight. While the blow-pipe is a convenient, simple, and cheap means of propelling the projectile, it is obvious that other propelling means may be employed and likewise means other than a suction cup may be provided for causing adherence of the projectile to the target.

From the above description it will be apparent that there is thus provided a device of the character described possessing the particular features of advantage before enumerated as desirable, but which obviously is susceptible of modification in its form, proportions, detail construction and arrangement of parts without departing from the principle involved or sacrificing any of its advantages.

While in order to comply with the statute, the invention has been described in language more or less specific as to the structural features, it is to be understood that the invention is not limited to the specific features shown, but that the means and construction herein disclosed comprise the preferred form of several modes of putting the invention into effect, and the invention is therefore claimed in any of its forms or modifications within the legitimate and valid scope of the appended claims.

Having thus described my invention, I claim:

1. A projectile, for a toy, to be launched from a blow pipe comprising a soft rubber vacuum cup and a feather carried thereby in a position of substantially axial alignment extending in a direction opposite the concave face of the vacuum cup, said projectile being adapted to be launched from the blow pipe with the feather end fore-

most whereby the air discharge pressure will tend to expand the vacuum cup into close contact with the walls of the blow pipe, and upon discharge therefrom the air resistance upon the feather will effect a reversal of the projectile in flight, the continuation of which will be with the vacuum cup foremost.

2. A projectile for a blow pipe, said projectile having an expansible head subject to distention under air discharge pressure into contact with the walls of the pipe and a rudder vane carried thereby initially arranged in advanced position but reversing when discharged from the blow pipe.

3. A projectile, for a toy, ejected from a blow pipe, comprising a soft rubber flexible member having a hollow face presented to the high pressure side when ejected and presented to the low pressure side when in engagement with the target and a rudder attached to the flexible member extending foremost when in the blow pipe and reversing the flexible member when traveling to the target.

4. A projectile, for a toy, ejected from an air pressure projector, comprising a soft rubber flexible member having an expansible head subject to distention under air discharge pressure and a rudder vane carried thereby and extending foremost initially, the air resistance upon which will effect a reversal of the projectile while in flight whereby the projectile advances with the flexible member foremost while traveling towards the target.

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