

No. 751,918.

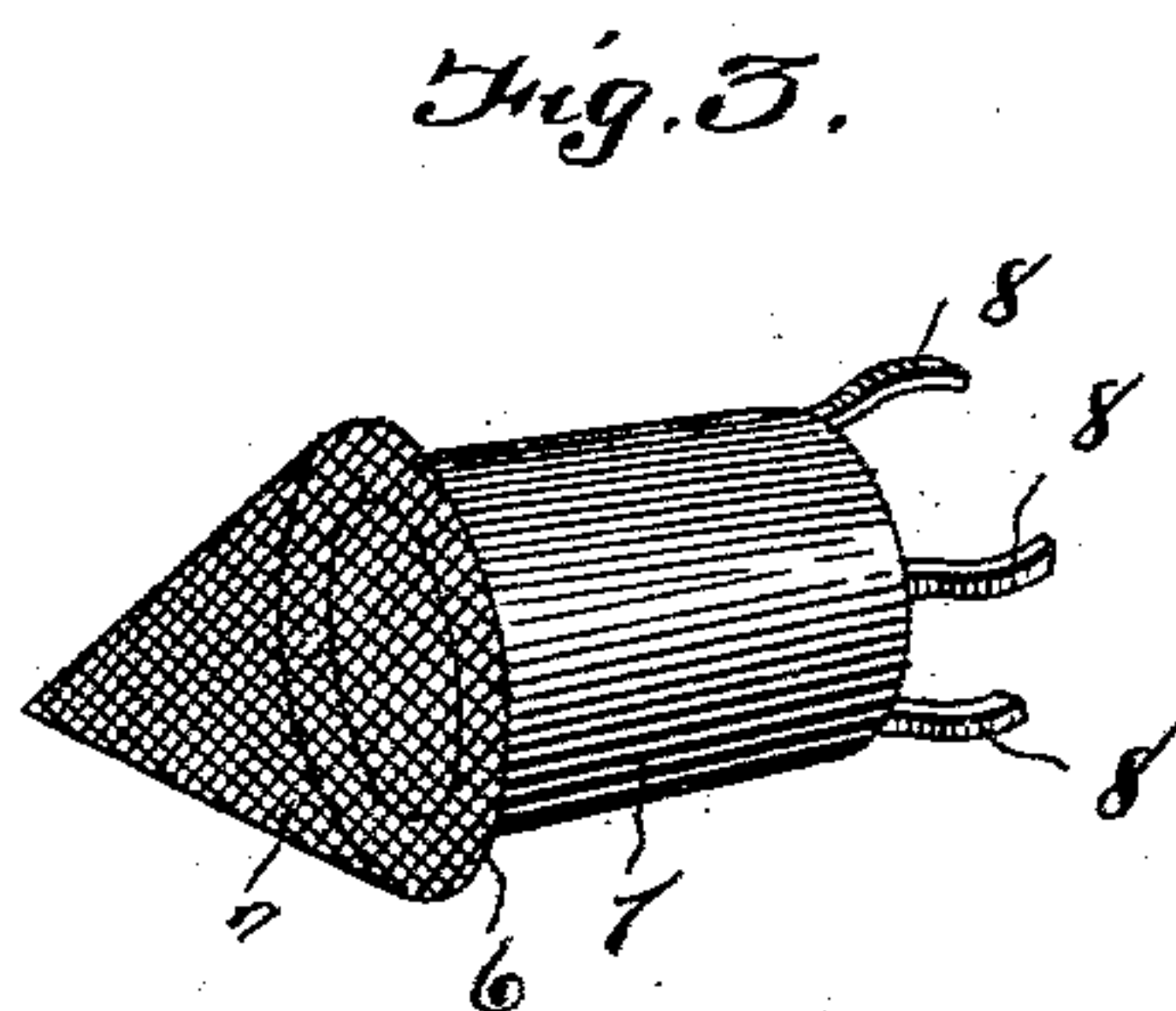
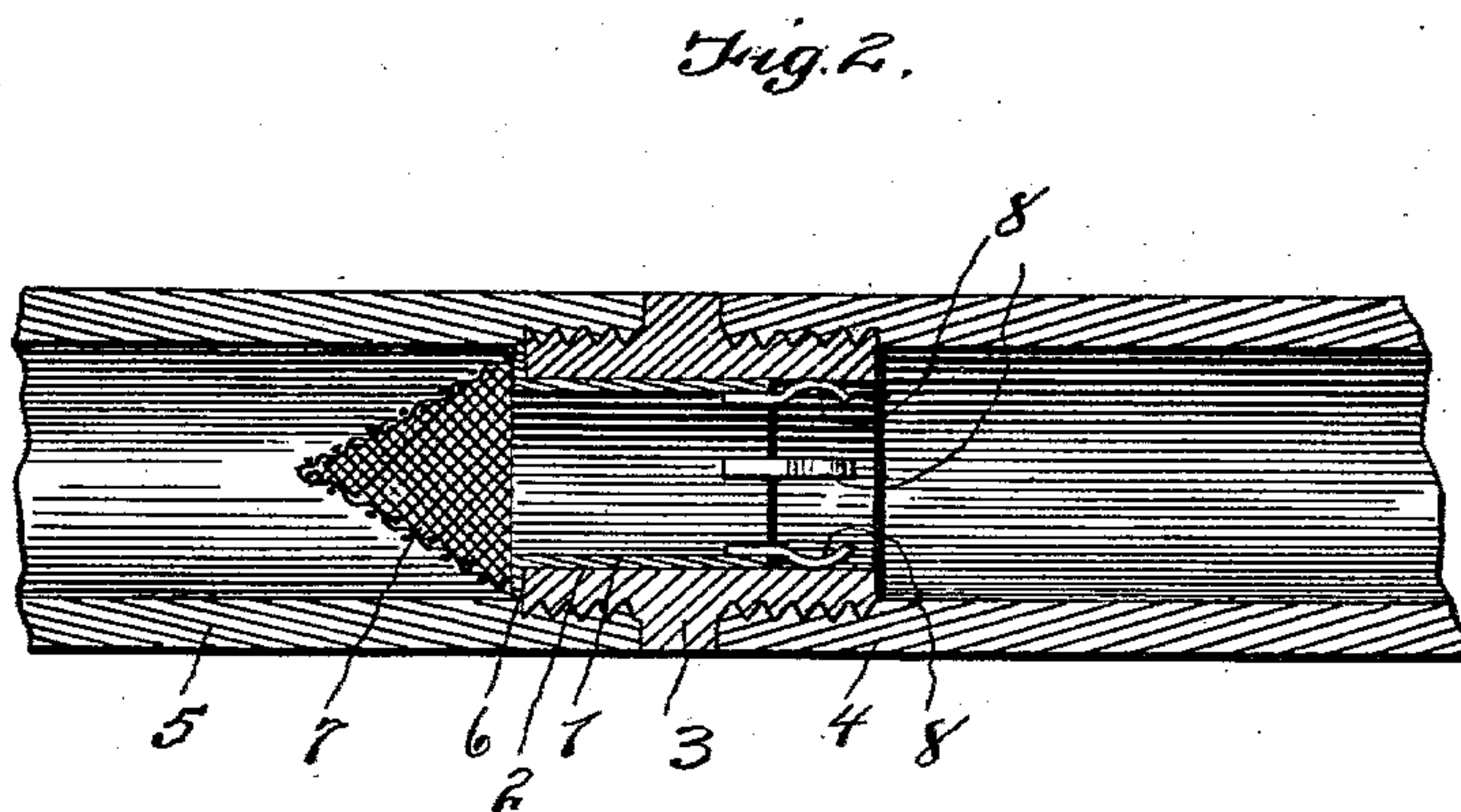
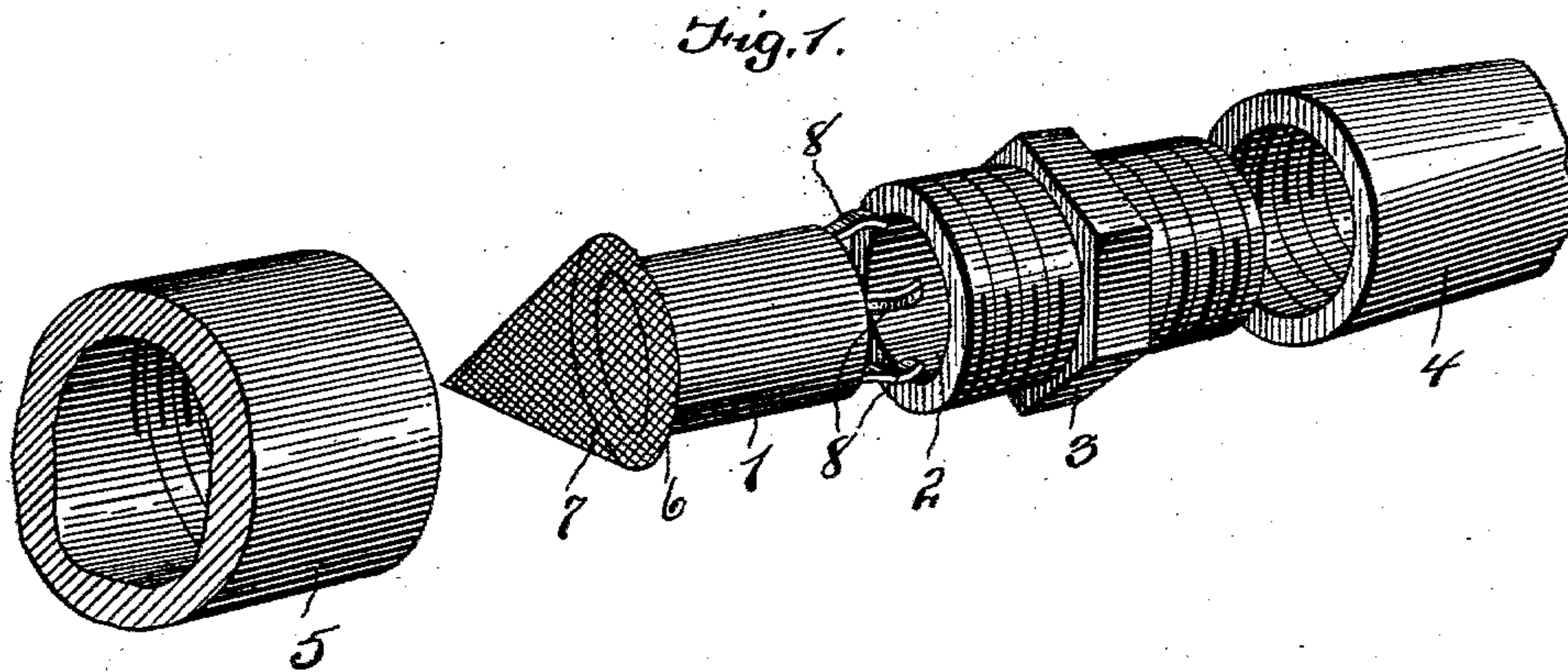
PATENTED FEB. 9, 1904.

H. A. JAGGER.

STRAINER ATTACHMENT FOR SPRAYING PUMPS.

APPLICATION FILED SEPT. 16, 1903.

NO MODEL.



Inventor

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Witnesses

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## UNITED STATES PATENT OFFICE.

HUBERT A. JAGGER, OF SOUTHAMPTON, NEW YORK.

## STRAINER ATTACHMENT FOR SPRAYING-PUMPS.

SPECIFICATION forming part of Letters Patent No. 751,918, dated February 9, 1904.

Application filed September 16, 1903. Serial No. 173,470. (No model.)

*To all whom it may concern:*

Be it known that I, HUBERT A. JAGGER, a citizen of the United States, residing at Southampton, in the county of Suffolk and State of New York, have invented certain new and useful Improvements in Strainer Attachments for Spraying-Pumps; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to means for providing a strainer-joint for spray-pumps and other similar purposes; and my invention consists of certain novel features of combination and construction of parts, as will be hereinafter fully described, and pointed out in the claims.

The object of my invention, among others, is to provide a straining device which may be readily removed or restored to its operative position.

A further object of my invention is to provide suitable anchoring or retaining means upon the removable strainer which will hold it in position by frictional engagement with the inner surface of the pipe in which it is located.

Other objects and advantages will be hereinafter made clearly apparent, reference being had to the accompanying drawings, which are made a part of this application, and in which—

Figure 1 shows a perspective view of my invention ready to be assembled in its seat provided therefor in the union or joint inserted between the meeting ends of pipe-sections. Fig. 2 is a longitudinal section of the parts shown in Fig. 1 in an assembled position, while Fig. 3 is a perspective view of my invention complete separated from the other parts.

Numerals will be employed to designate the various details of my invention and cooperating accessories, the same numeral applying to a similar part throughout the several views.

In carrying out my invention I provide a tubular body portion 1 of proper diameter to fit within the bore 2 of the union 3, said union having threaded ends, as is common, and a central portion shaped upon its periphery to

receive a wrench. The ends of the union 3 are exteriorly threaded to be received by the internally-threaded ends of the pipe-sections 4 and 5.

The body portion 1 is provided at one end with a radial flange 6, extending slightly beyond the periphery of the cylindrical body 1, and to the outer edges of the flange I secure, as by brazing, soldering, or otherwise, the base of the cone member 7, which is formed of meshed wire, so that a perfect strainer will be produced, the apex of the cone being directed against the current of fluid passing through the pipes, whereby the flange will bear against the end of the union 3, which will serve as a shoulder to hold the member 1 against further inward movement.

In some instances the opposite end of the tubular body 1 is provided with a plurality of spring members or arms 8, secured to the end of said body in any preferred way and reaching outward sufficiently to engage the walls of the bore 2, and thereby more securely anchor the strainer in position, it being understood that the flange 6 will prevent all inward movement of the member 1 and the resilient radial arms 8 will hold it against any outward movement after once seated within the bore 2.

Inasmuch as the water or the like passing through the tubes will travel in the same direction, it will not always be necessary to provide the resilient arms 8, and I therefore reserve the right to employ said arms or wholly omit them, as I may find most desirable in practice.

It will be understood that the straining member is preferably formed in the shape of a cone, as shown, though other shapes or outlines may be adopted, as preferred, it being further obvious that a strainer may have meshes of large or small size, according to the work it is to perform. It will thus be seen that I have provided a strainer which may be bodily and quickly removed from its operative seat for the purpose of replacement or repair or to enable it to be cleansed and that it may be easily reintroduced in its operative place.

It is furthermore obvious that my removable strainer may be very cheaply and expe-



ditionally manufactured, and therefore provided and sold at a nominal cost.

Believing that the construction and manner of using my improved removable strainer for 5 spray-pumps or the like or for straining water or other liquid in pipes of all kinds have thus been made clearly apparent, further description is deemed unnecessary.

Having thus fully described my invention, 10 what I claim as new, and desire to secure by Letters Patent, is—

1. The herein-described removable strainer comprising the combination with a pipe-union or the abutting end of conveyer pipe or tube, 15 of a body portion 1 having an offset or flange at one end of larger extent than the diameter of said tube or union, said flange being provided with a strainer-terminal substantially as described, while at the opposite end 20 of the body suitable spring-actuated retaining devices are provided adapted to hold it in its operative seat as and for the purpose set forth.

2. The herein-described strainer comprising

the combination with a pipe-union or the abut- 25 ting ends of the conveying pipe or tube, of a body portion 1 having an offset or flange at one end of larger extent than the diameter of said tube or union, a conical strainer-terminal secured to the enlarged end of said body portion, and suitable retaining devices at the op- 30 posite end of said body portion adapted to hold it in its operative seat, as and for the purpose set forth.

3. As an article of manufacture, the herein- 35 described removable strainer, comprising a body portion having an offset or flange at one end, a strainer attachment secured thereto, and curved spring-actuated retaining devices at the opposite end thereof, as and for the pur- 40 pose set forth.

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

HUBERT A. JAGGER.

Witnesses:

W. K. DENWELL,

F. E. FANNING.