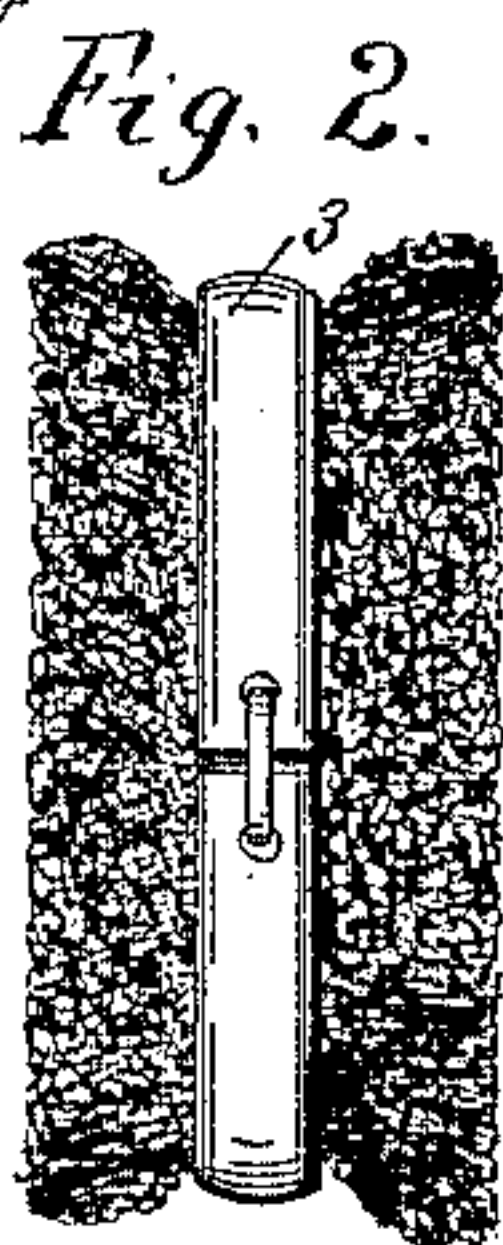
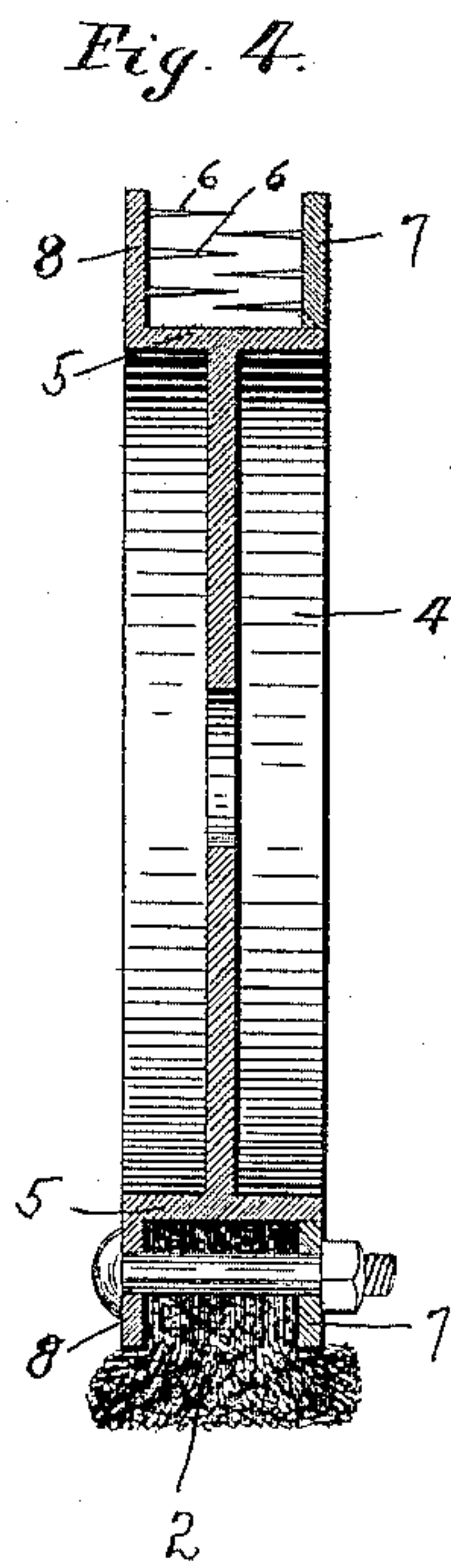
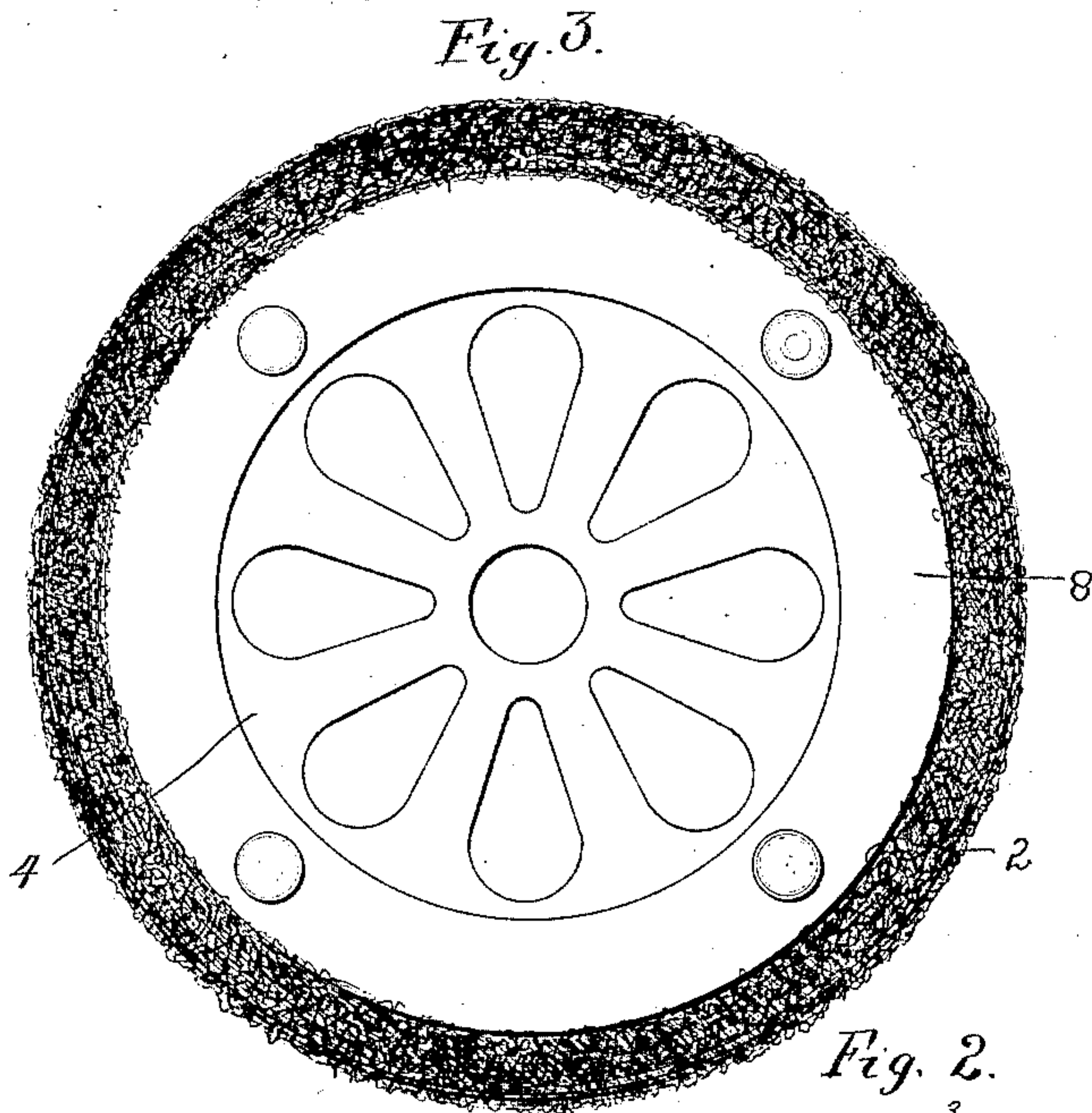
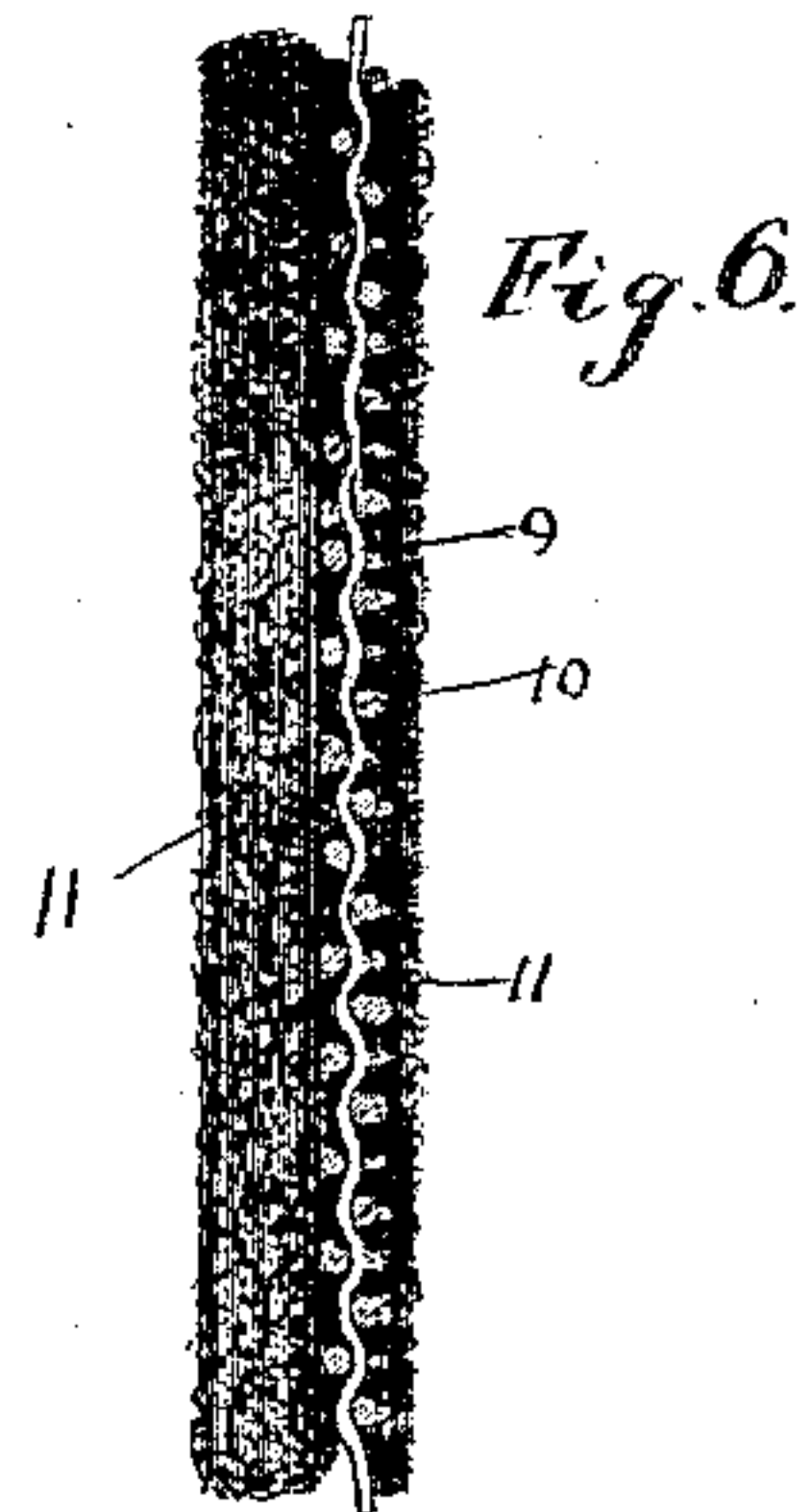
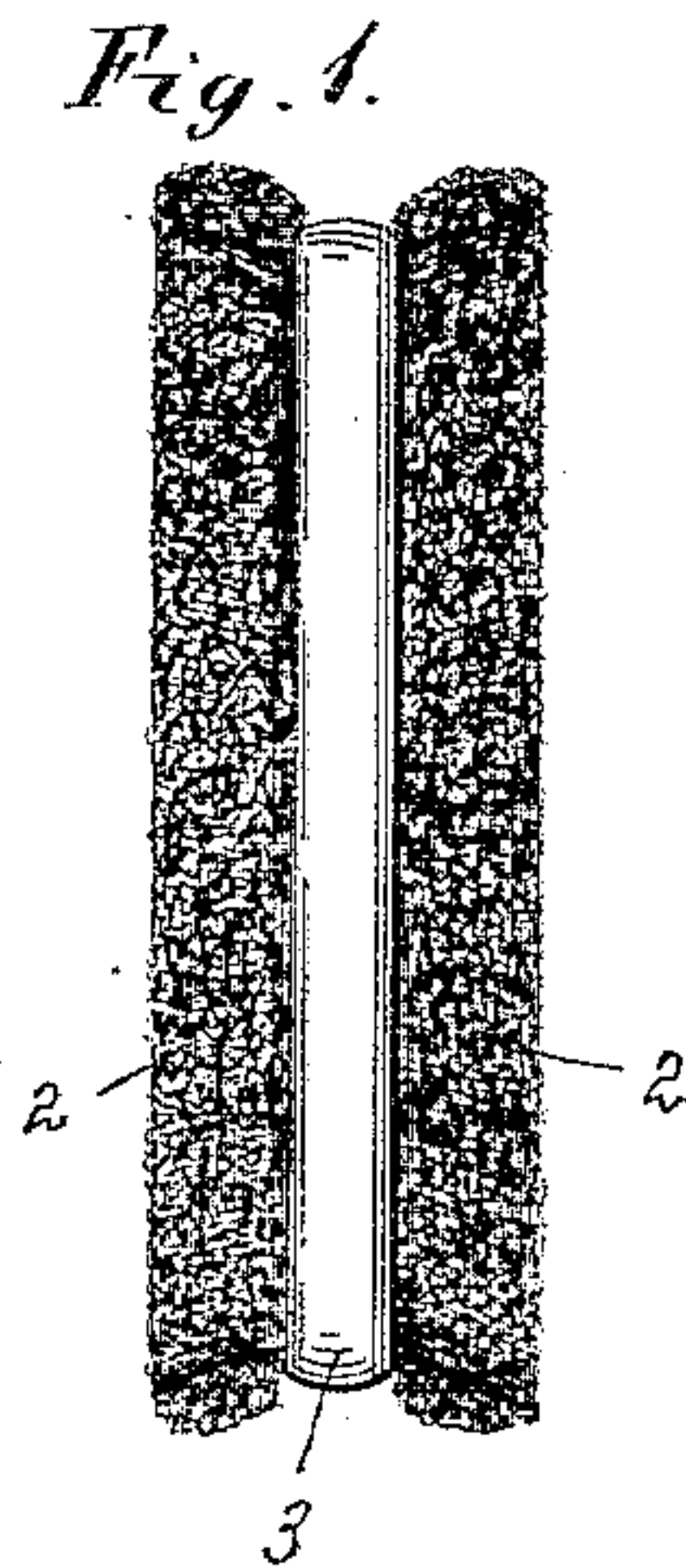
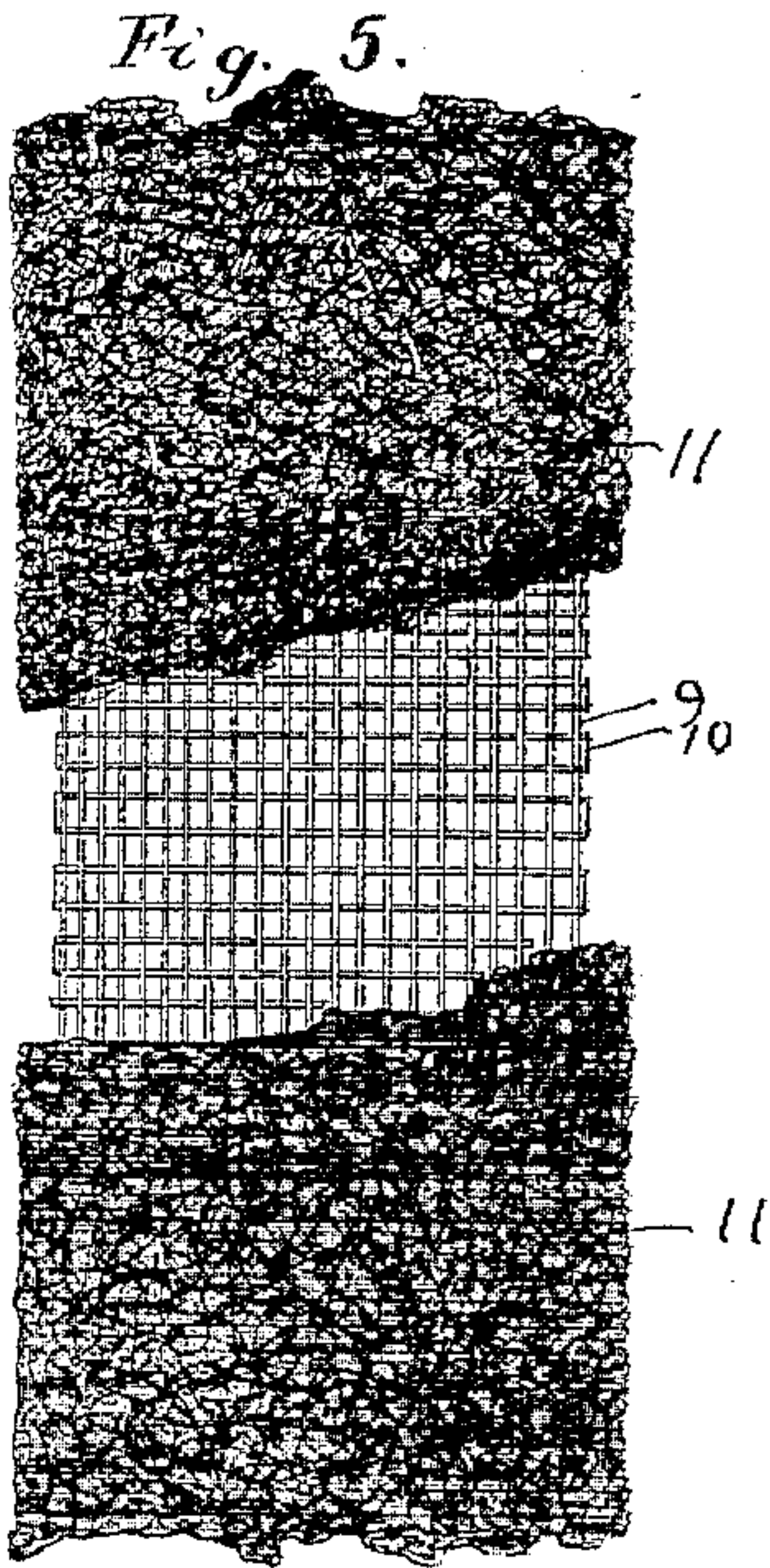


(No Model.)

W. CHURCH.
DEVICE FOR POLISHING AND BUFFING.

No. 436,868.

Patented Sept. 23, 1890.



Witnesses.
S. M. Roberts
A. M. Gaskill,

Inventor
William Church
By *Paul & Merwin Atty's*

UNITED STATES PATENT OFFICE.

WILLIAM CHURCH, OF ST. PAUL, MINNESOTA.

DEVICE FOR POLISHING AND BUFFING.

SPECIFICATION forming part of Letters Patent No. 436,868, dated September 23, 1890.

Application filed October 2, 1889. Serial No. 325,775. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM CHURCH, of St. Paul, in the county of Ramsey and State of Minnesota, have invented new Improve-
5 ments in Devices for Polishing and Buffing, of which the following is a specification.

My invention relates to improvements in devices and appliances for the rubbing down of painted or varnished surfaces in order to
10 secure a smooth surface for another coating, and also for the polishing or cleaning of wooden and metallic surfaces; and it consists in providing pads to be held in the hands, or buffing wheels or belts formed from firmly-
15 compressed masses of animal-hair, preferably curled horse-hair. The projecting ends or parts of the compressed body of hair are trimmed off to an even surface, which serves as the bearing-surface of the device. A suit-
20 able polishing-powder—such as powdered pumice—is filled into the hair of the pad or buffing-wheel in which it is held, and thereby brought in contact with the surface of the article to be polished.

25 In the accompanying drawings, forming a part of this specification, Figure 1 is a side elevation of my improved rubbing-pad. Fig. 2 is an end elevation of the same. Fig. 3 is an elevation of a buffing-wheel. Fig. 4 is a
30 central cross-section of the same. Fig. 5 is a plan view and partial section of a piece of my improved belting or woven fabric, and Fig. 6 is a cross-section of the same.

35 In the drawings, 2 represents the body of the pad or buffing-wheel formed of a mass of curled hair.

3 is the clamping band or strap surrounding the same and confining it under pressure.

4 is the frame or disk of the buffing-wheel,
40 formed, preferably, with an L-shaped rim 5, fitted with prongs or teeth 6.

7 is an annular plate or ring provided with similar teeth 6 and adapted to be clamped
45 upon the opposite side of the wheel from the flange 8 and bolted or riveted thereto, and

thus to form a peripheral groove, in which is firmly clamped the hair 2, the teeth 6 serving to hold it more firmly in place. The faces of the pad or wheel may be trimmed true by means of a saw or knife to secure a good sur-
50 face for the pad or wheel to bear upon the object to be polished.

Figs. 5 and 6 show my improved device made in the form of a flexible fabric, in which the hair 11 is firmly compressed by means of
55 the tension of the warp 9 and woof 10, or in any other suitable manner, so as to secure a firm body and at the same time flexibility. This fabric may be used as belting for the polishing of wood or metal in the same man-
60 ner as "sand" or "emery" belts, so called, are ordinarily used, the sand, emery, or other polisher being mixed into the body of hair, which carries it in contact with the work.

It is obvious that various modifications of
65 construction may be made without departing from the principle of my invention, whereby the hair is held under firm pressure, so as to secure a sufficiently hard surface, which is also, from the character of the material, elas-
70 tic and porous.

I claim—

1. The combination of a mass of animal-hair and devices, substantially as described, engaging with and holding the same in a firm
75 body, adapted to receive and to hold in its surface interstices a polishing-powder, substantially as and for the purposes set forth.

2. As an improved article of manufacture, the combination of a mass of animal-hair and
80 clamping devices embracing and compressing the same into a solid body, adapted to retain in its interstices a polishing-powder, substantially as and for the purpose set forth.

In testimony whereof I have hereunto set
85 my hand this 27th day of September, 1889.

WILLIAM CHURCH.

In presence of—

T. D. MERWIN,
A. M. GASKILL.