

(No Model.)

J. J. BOOTH & W. FLINN.
PAVING ROLLER.

No. 562,167.

Patented June 16, 1896.

Fig. 3.

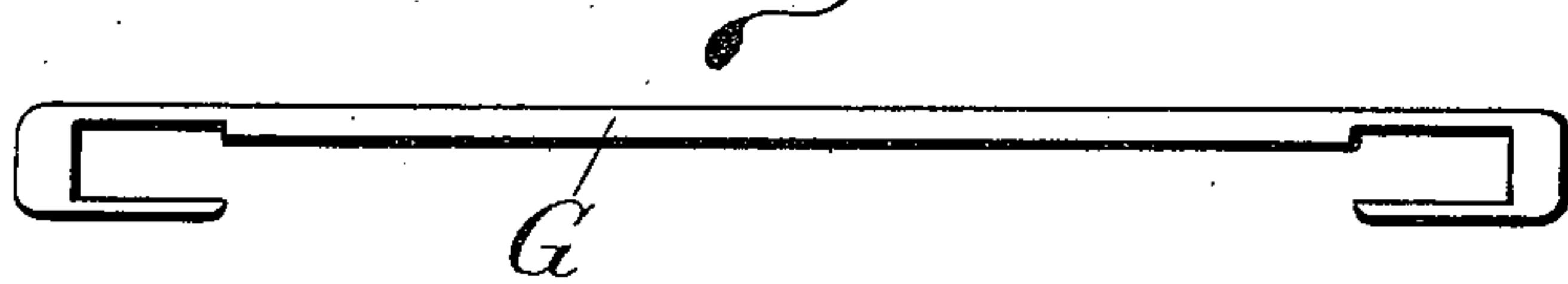


Fig. 1.

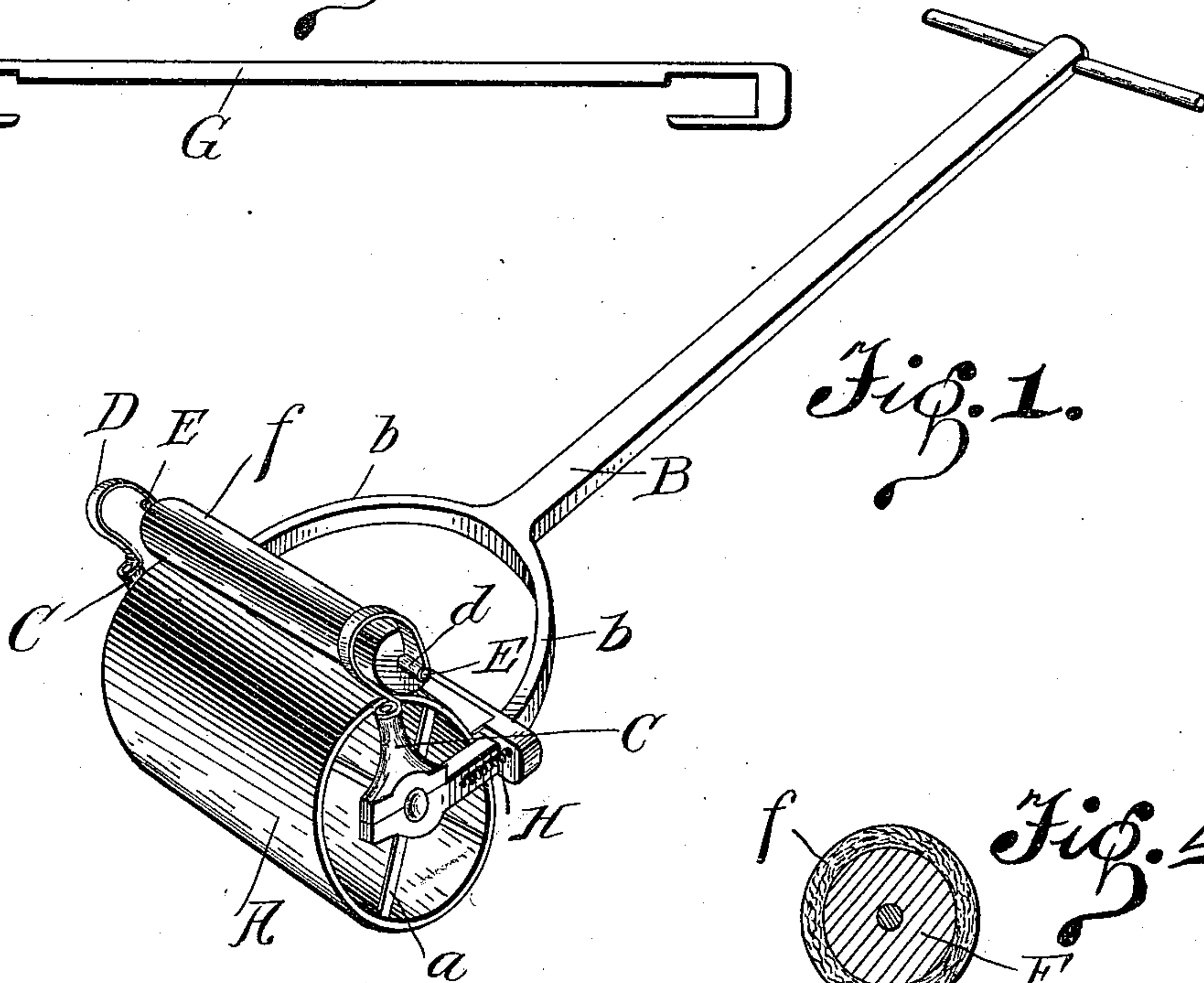
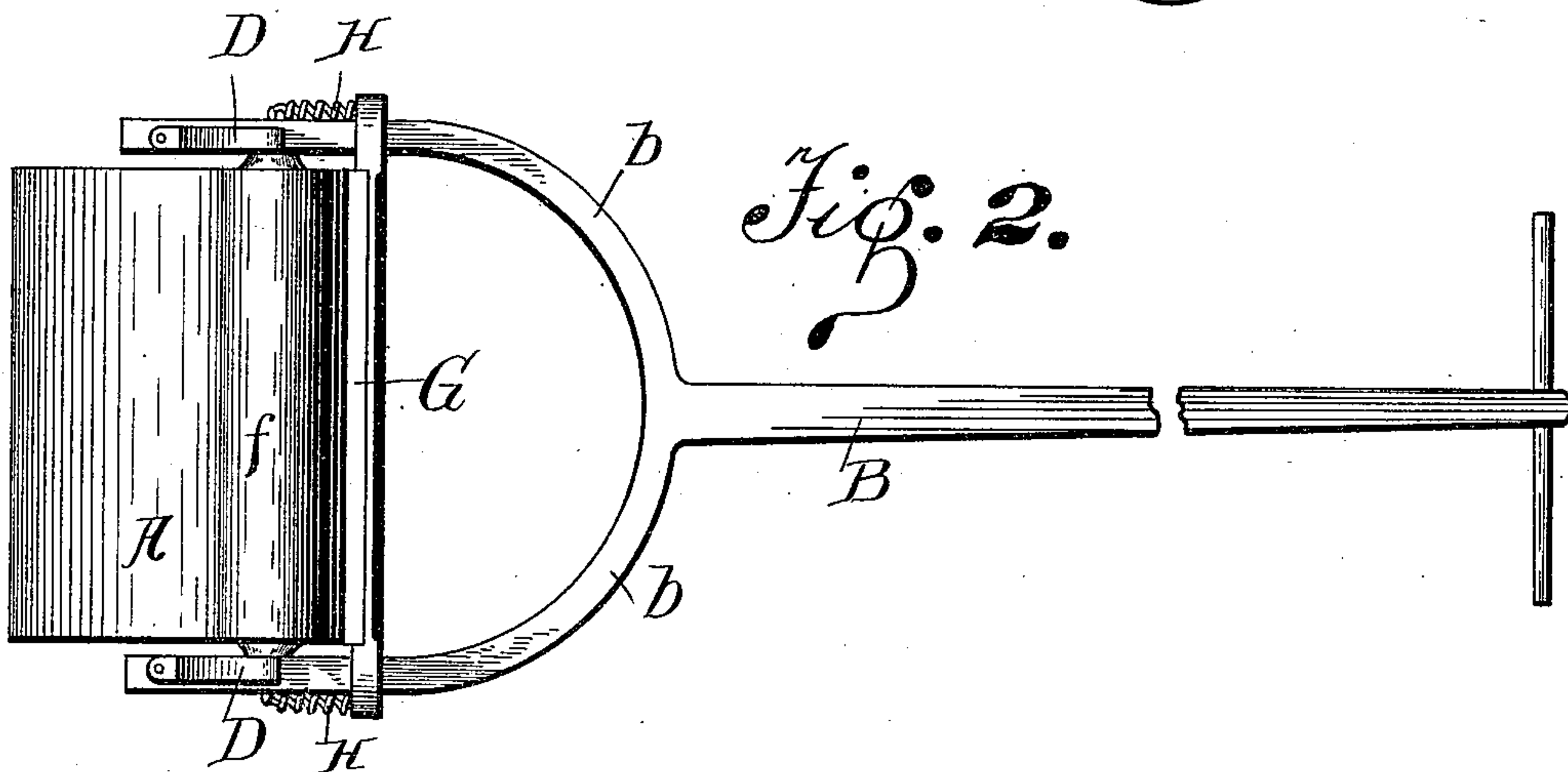


Fig. 2.



Witnesses:-
A. R. Appleman Jr.
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Inventors.
James J. Booth.
William E. Flinn.
By Henry C. Over. Atty.

UNITED STATES PATENT OFFICE.

JAMES J. BOOTH AND WILLIAM FLINN, OF PITTSBURG, PENNSYLVANIA.

PAVING-ROLLER.

SPECIFICATION forming part of Letters Patent No. 562,167, dated June 16, 1896.

Application filed February 21, 1896. Serial No. 580,286. (No model.)

To all whom it may concern:

Be it known that we, JAMES J. BOOTH and WILLIAM FLINN, citizens of the United States of America, residing at Pittsburg, in the
5 county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Paving-Rollers, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention relates to certain new and useful improvements in smoothing-rollers, and more particularly to that class employed for smoothing asphalt pavements.

The invention has for its object the provision of novel means whereby a roller of the above-referred-to class may be conveniently and automatically greased when in operation; furthermore, to provide an attachment that
15 will assure a uniform distribution of the grease over the entire bearing-surface of the roller.

The invention has for its further object to provide a simple and effective means, whereby any particles from the asphalt composition
20 that may adhere to the roller will be readily removed.

The invention has for its still further object to design a roller and attachment of the above-referred-to class that will be extremely
25 simple in construction, strong, durable, and inexpensive to manufacture.

30 With the above and other objects in view, the invention finally consists in the novel construction, combination, and arrangement of parts to be hereinafter more particularly described, and specifically pointed out in the claim.

In describing the invention in detail, reference is had to the accompanying drawings, forming a part of this specification, and wherein like references are indicated in similar parts from the several views, in which—
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Figure 1 is a perspective view of a smoothing-roller provided with our improved attachment. Fig. 2 is a top plan view of the same. Fig. 3 is a detailed side elevation of the scraper. Fig. 4 is a transverse vertical
40 sectional view of the oiling-roller.

In the drawings, A indicates the roller

proper, the latter being an oiled cylinder provided at its ends with ribs or spokes *a*, and forming a bearing for the handle B, having forked ends *b b*, engaging the said bearing. The forked ends of the handle are provided with upwardly-extending standards C C, arranged at the extremity of said ends. At the
55 top of the standards C C are arranged spring-arms D D, terminating in the bearing *d d* for the reception of the shaft E of the oiling-roller F, to which is secured a covering *f*, of absorbent material. Secured to the forked arms *b b*, in close proximity to the roller A, is a scraper G, which is adapted to slide on the arms *b b*, and is retained near the roller by coiled springs H H, secured to the scraper G, and forked
60 arms *b b*.

The operation of our improved smoothing-roller will be readily apparent. The covering material *f*, of the roller F, is saturated with oil, and as the cylinder A is pushed backward
65 and forward over the asphalt the roller F will keep the smoothing-roller A thoroughly oiled over its entire surface at all times, and to prevent the asphalt from adhering to the same. Should any of the particles adhere to the roller
70 A, the scraper G will remove the same before they will reach the roller F.

We desire to call particular attention to the simplicity of construction of our improved smoothing-roller, and also to the fact that the
75 oil, by the means of the roller provided, will evenly be distributed over the smoothing-roller A and keep the same oiled at all times, the absorbent material being thick enough to hold a considerable quantity of oil, and the
80 pressure of the two rollers together causing the same to ooze through the felt onto the smoothing-roller.

It will be noted that various changes will be made in the details of construction of our
85 improved smoothing-roller without departing from the general spirit of our invention.

Having fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—
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In combination a roller having suitable axle-bearings formed with the handle, a scraper formed with end loops to inclose the

forked ends of the handle, a spring for holding the scraper against the wheel, standards secured to the ends of the handle, springs secured thereon ending in bearings, a roll jour-
5 naled therein, and roll being adjustable to engage the periphery of the roller A, and having a coating of absorbent, as and for the purpose described.

In testimony whereof we affix our signatures in presence of two witnesses.

JAMES J. BOOTH.
WILLIAM FLINN.

Witnesses:

JAS. B. KANE,
WILFORD WILHARM.