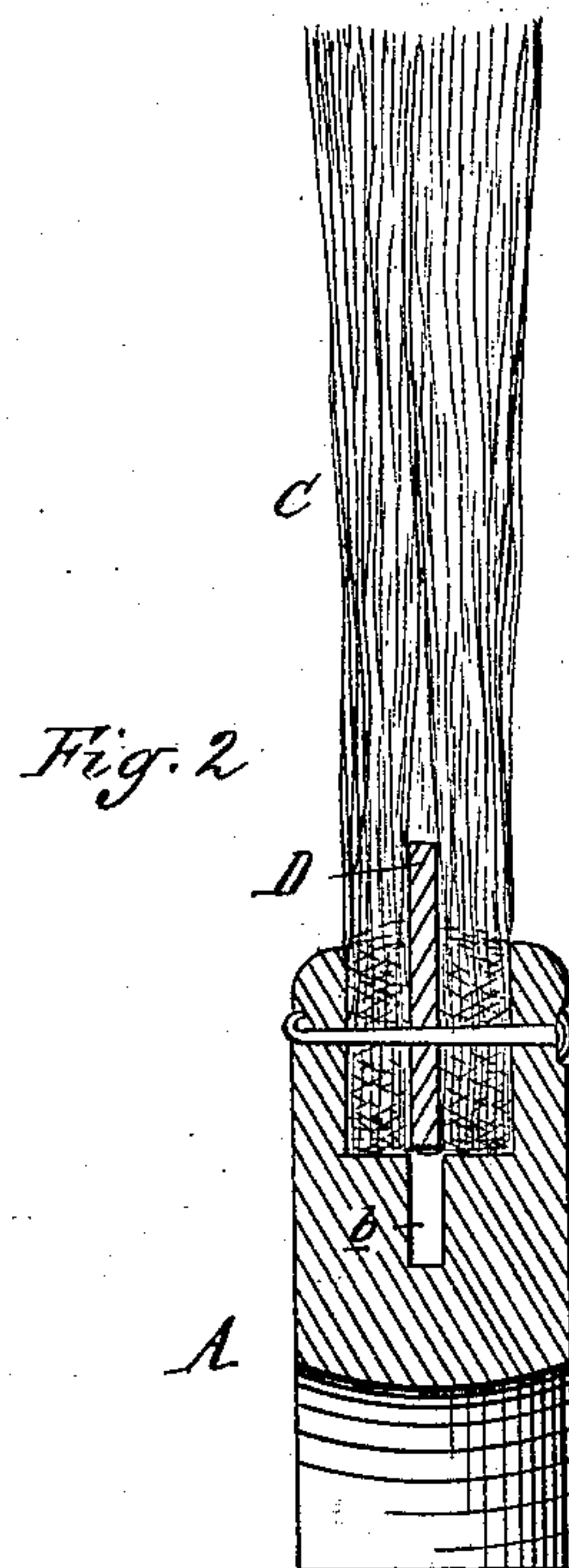
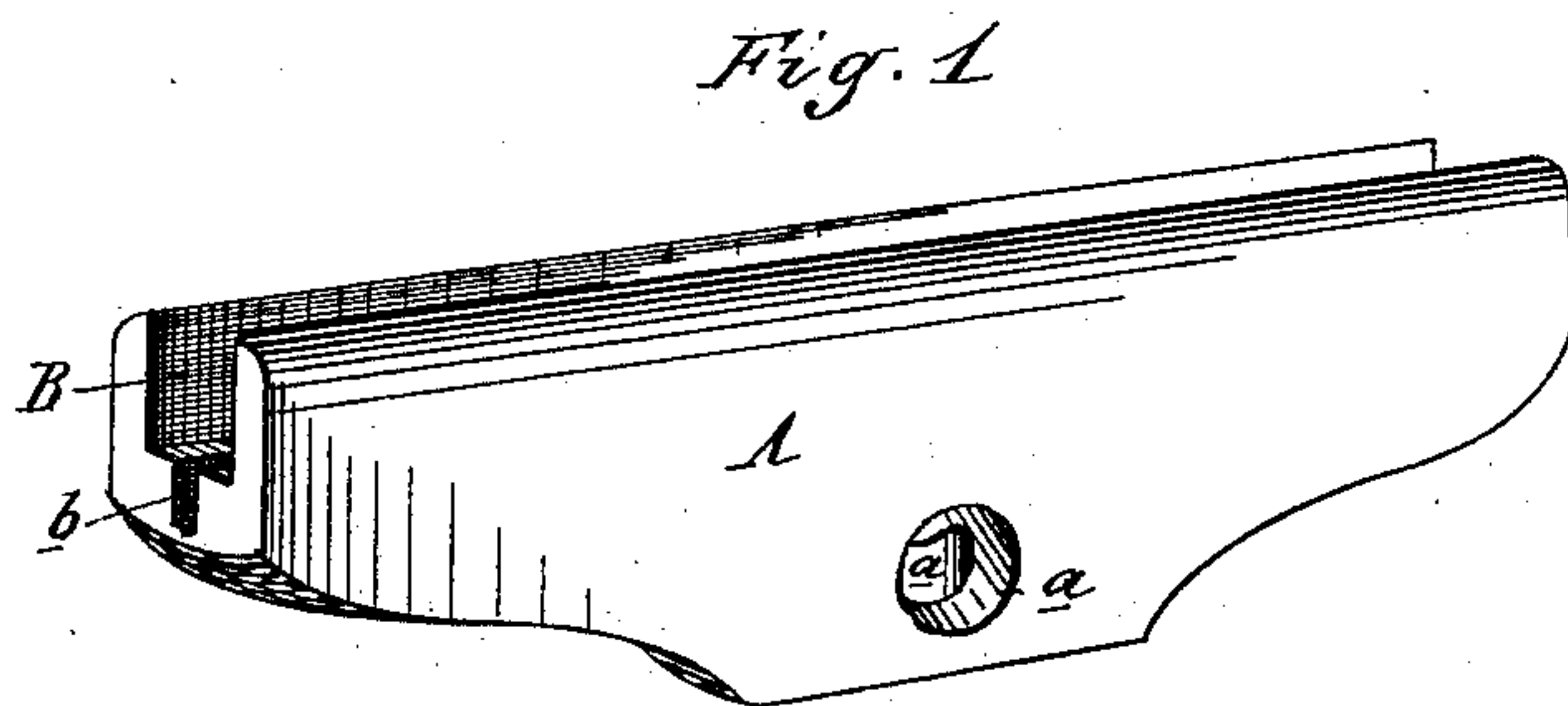


(No Model.)

D. A. McDONEL.
BRUSH.

No. 256,582.

Patented Apr. 18, 1882.



Attest:
A. Barthel
E. Bulby

Inventor:
Daniel A. McDonel
per Wm D. Sprague

Atty

UNITED STATES PATENT OFFICE.

DANIEL A. McDONEL, OF DETROIT, MICHIGAN.

BRUSH.

SPECIFICATION forming part of Letters Patent No. 256,582, dated April 18, 1882.

Application filed February 4, 1882. (No model.)

To all whom it may concern:

Be it known that I, DANIEL A. McDONEL, of Detroit, in the county of Wayne and State of Michigan, have invented new and useful
5 Improvements in Brushes; and I hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, which form a part of this specification.

10 The nature of this invention relates to certain new and useful improvements in the construction of brushes; and the invention consists in the peculiar construction of the brush-head and the means employed for securing the bristles in such head, all as more fully hereinafter
15 set forth.

Figure 1 is a perspective view of my improved brush-head. Fig. 2 is a cross-section of my brush.

20 In the accompanying drawings, which form a part of this specification, A represents the brush-head, provided with the usual holes, *a*, for the reception of the handle. In the straight edge of the head I form a channel, B, length-
25 wise of the head, and at the bottom of this channel I cut the saw-kerf *b*.

In the building up of the brush, the head having been prepared as above described, I

first arrange the bristles C in a proper clamp, placing between them at their butts the strip
30 of veneer D. I then dip their ends into melted pitch or other suitable material, and then force them into the channel B of the head. I then place the head in a suitable vise or press, which compresses the edges of the head, which are
35 then nailed as in the ordinary manner.

In brush-heads not provided with the saw-kerf at the base of the channel the sides of the head often break off or split when being
40 nailed; but in this construction the saw-kerf admits of a compression of the head, the spring being from the base of the kerf to the edge of the head, allowing the channel to conform to the butt of the brush without danger of split-
45 ting, and the butts of the bristles being larger at that point, and being additionally held by the pitch, prevents their being pulled out.

What I claim as my invention is—

A brush wherein the head is provided with a saw-kerf at the base of the channel which
50 contains the bristles, substantially as and for the purposes set forth.

DANIEL A. McDONEL.

Witnesses:

H. S. SPRAGUE,
E. SCULLY.