

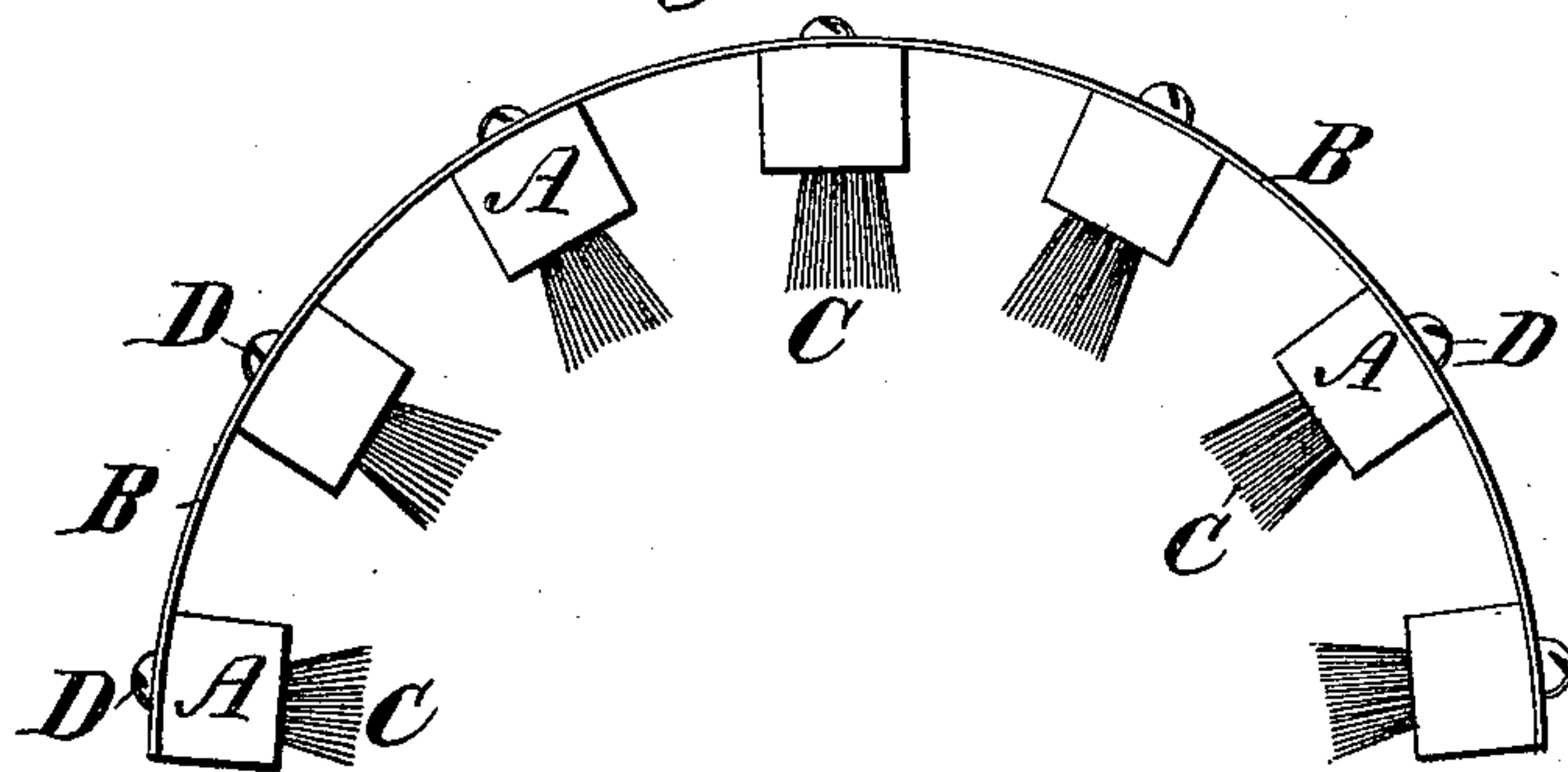
(No Model.)

O. M. FARRAND.  
BRUSH.

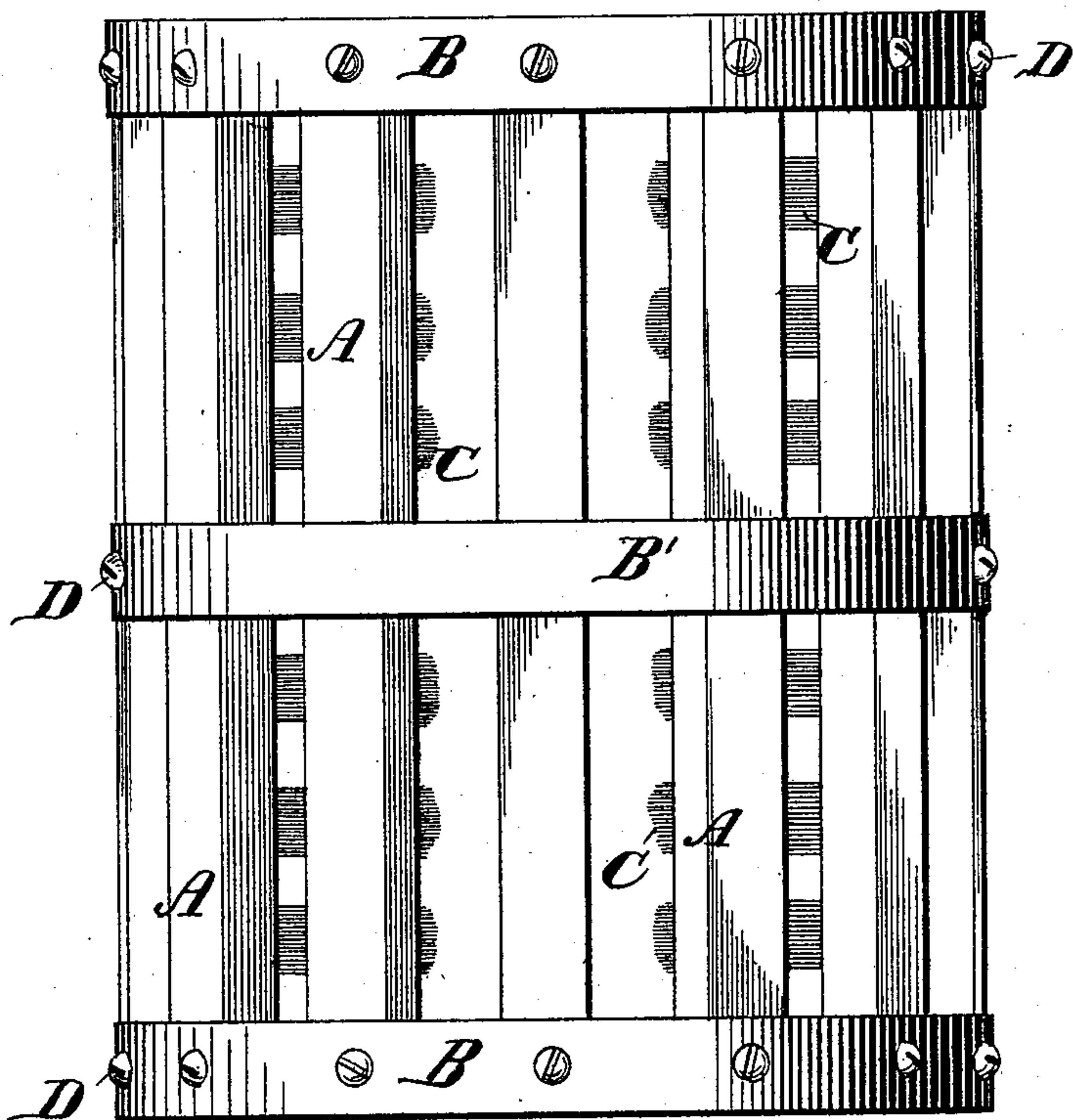
No. 583,677.

Patented June 1, 1897.

*Fig. 1.*



*Fig. 2.*



WITNESSES:

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# UNITED STATES PATENT OFFICE.

OLIVER M. FARRAND, OF NEW YORK, N. Y.

## BRUSH.

SPECIFICATION forming part of Letters Patent No. 583,677, dated June 1, 1897.

Application filed June 18, 1896. Serial No. 595,961. (No model.)

*To all whom it may concern:*

Be it known that I, OLIVER M. FARRAND, a citizen of the United States of America, residing at New York city, county and State of New York, have invented and made certain Improvements in Brushes; and I do hereby declare that the following is a full, clear, and exact description and specification of the same, reference being had to the accompanying drawings, which form part thereof.

The object of my invention is to provide a brush which can be conformed to the shapes of different surfaces, curved or otherwise, such as curved bicycle-tires and such like articles, for the purpose of cleaning them after use; and to this end my invention consists in certain combination of means fully specified and claimed herein.

In order that persons skilled in the art may understand, construct, and use my invention, I will proceed to describe it, referring to the accompanying drawings, in which—

Figure 1 is an end view of my invention, and Fig. 2 is a back view.

A are strips of wood or suitable material secured by screws D to strips of spring metal B B', preferably of brass and normally curved as shown.

C are bunches of bristles secured in holes in the inner faces of the strips A.

The central spring back strip B' is attached to the two end strips D only to avoid the excessive strain to the said spring, which occurs in compressing the brush from a larger to a smaller curve and back again when it is attached to all of the wooden strips D. This gives it a longer action and the spring does

not cramp in use. The two outer spring-strips B serve to hold the wooden strips D in definite open relation to each other and also to assist in stiffening the brush as a whole. The brush in use is compressed in the user's hand to the shape of the bicycle-tire, and the brush-strips D act lengthwise of said strips, not crosswise, as in former constructions.

It will be readily seen that the brush as constructed when held in one's hand can easily be curved to conform to any shape of surface which a bicycle-tire assumes, and that it is capable of meeting all the requirements of such use. The strips A are shown set apart a distance from each other, both for the purpose of permitting a large range of curvature to be made without bringing the strips into contact with each other and also to permit the dust and dirt to be easily freed from bristles between the strips A and the springs B B'.

Having now fully described my invention and the manner in which I have embodied it, what I claim as new and as my invention is—

In combination for a handleless bicycle-brush; the brush-strips provided with tufts of bristles; on one side only; and secured together in definite open relationship to each other, upon their backs or opposite sides, by two outer spring-strips B, and having a central spring-strip B' positively secured to two brush-strips only, all constructed, arranged and combined to operate as and for the purposes hereinbefore specified.

OLIVER M. FARRAND.

Witnesses:

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JAMES M. HICK.