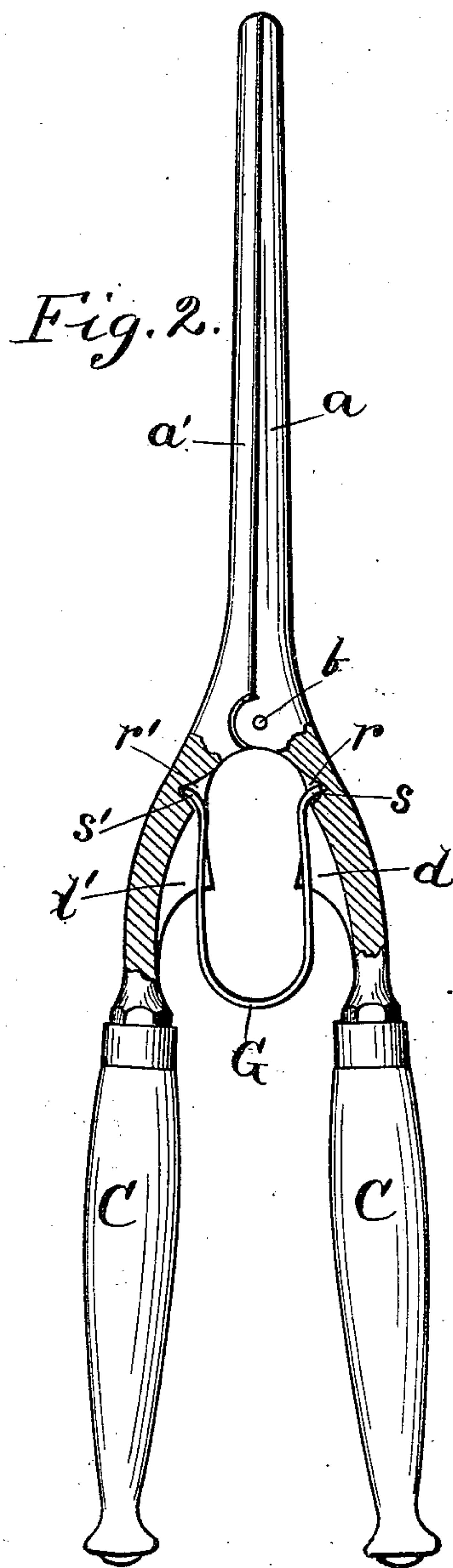
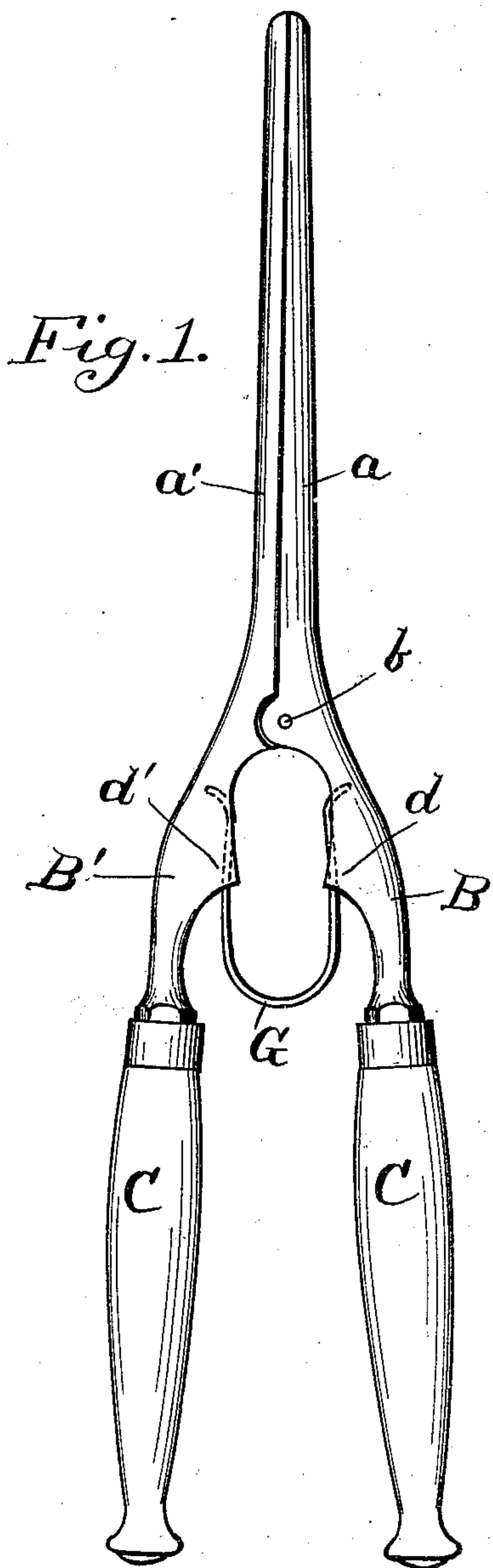


(No Model.)

R. NICOL, Jr.  
CURLING IRON.

No. 512,516.

Patented Jan. 9, 1894.



Witnesses:  
R. J. Jaeger,  
Willard M. Johnson By

Inventor:  
Robert Nicol Jr.,  
Leonard Watson Atty.

# UNITED STATES PATENT OFFICE.

ROBERT NICOL, JR., OF CHICAGO, ILLINOIS.

## CURLING-IRON.

SPECIFICATION forming part of Letters Patent No. 512,516, dated January 9, 1894.

Application filed December 14, 1892. Serial No. 455,135. (No model.)

*To all whom it may concern:*

Be it known that I, ROBERT NICOL, Jr., a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a certain new and useful Improvement in Curling-Irons, which is fully set forth in the following specification, reference being had to the accompanying drawings, in which—

10 Figure 1 is a plan view of a curling iron embodying my invention. Fig. 2 is a plan view of the same, showing a portion of each of the jaws cut away for the purpose of uncovering the recesses in which the ends of the spring rest.

15 My invention relates particularly to that class of curling irons composed of two jaws, one of which is pivoted to the other, and in which the jaws are held in contact when in their normal position by means of a spring operating at a point in the rear of the pivotal connection between the jaws.

20 I am aware that curling irons have heretofore been made substantially in the form of the curling iron shown in the drawings hereto annexed, but in all of the curling irons of which I have knowledge wherein a U spring is used, the bend of the spring has been toward the front of the curling iron, consequently toward the fire or heat, which is used for the purpose of heating the jaws of the iron. The effect of having the spring so placed is, that within a comparatively short time the temper is drawn from the spring, and as the spring is fastened into the shank of the jaw, by means of rivets, or in some other rigid manner, the iron is rendered practically useless, or at least loses a large portion of its efficiency by reason of such loss of temper. This has led to the use of a coil spring between the jaws for the purpose of holding them in contact in their anterior portions.

45 In the structure which I have invented, and which is shown in the drawings hereto annexed, the spring, which is a U-shaped spring

of flat metal made in the usual form (it might be a wire with equal efficiency) is bent at the ends for the purpose of retaining it in position.

I will now describe the invention in detail, referring to the drawings.

A is a curling iron having two jaws *a, a'* pivoted at *b*. These jaws are provided with shanks *B, B'* and handles *C*. The shanks extending backward are provided with webs *d, d'* on their outer surfaces, extending inward from the shank proper to form guards for the spring *G*. The shanks are also provided with recesses *r, r'* to receive the ends *s, s'* of the spring *G*, the bend or bow of the spring extending backward from the jaws. As will be readily seen, should the spring break or become non-elastic, it is easily removed by simply prying out the ends *s, s'* from the recesses *r, r'* and inserting in place a new spring; but the spring being of the shape shown, it is much less apt to break than when the spring is placed in the reverse position, and will not in long use lose its elasticity.

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

1. A curling iron composed of two jaws, pivoted together, having their shanks provided with recesses to receive and hold in place a U-shaped spring, bent in its intermediate portion, and extending rearward from the jaws so as to remove the active area of the spring as far as possible from the source of heat, substantially as described.

2. In a curling iron having two jaws, a flat spring bent in its intermediate portion and extending rearward from the jaws, so as to be as far as possible from the source of heat, and having the free ends inserted in recesses in the shanks of the jaws, substantially as described.

ROBERT NICOL, JR.

In presence of—

IRVINE MILLER,  
LEONARD WATSON.