No. 765,863. PATENTED JULY 26, 1904.

S. A. SPANGENBERG.

HAIR CURLER.

APPLICATION FILED AUG. 14, 1903.

NO MODEL.

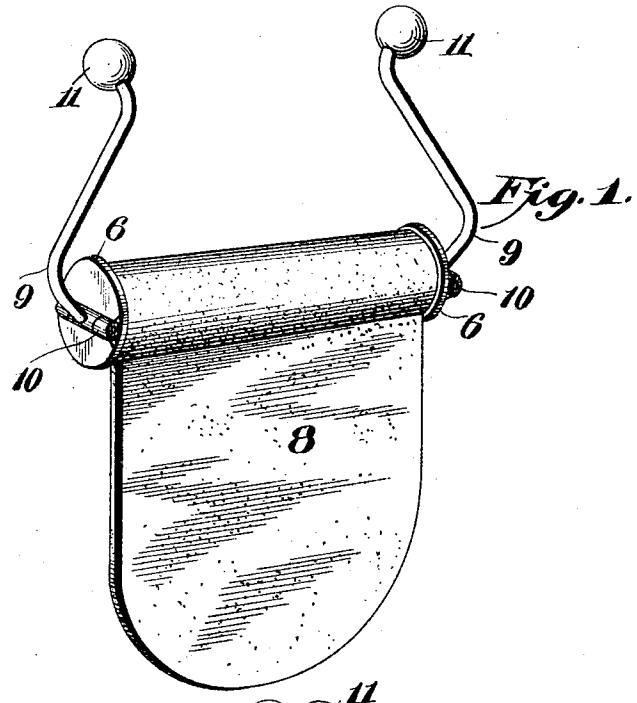


Fig. 1.

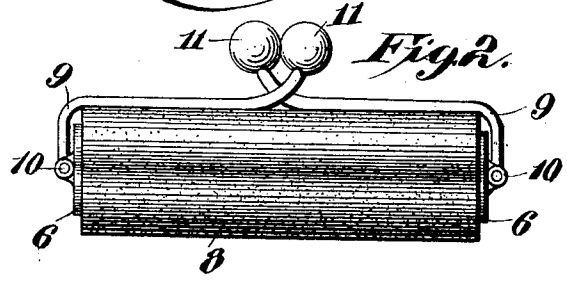
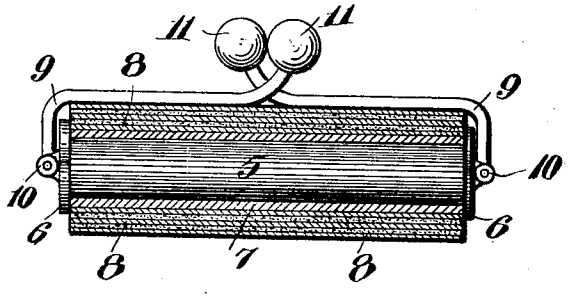


Fig. 2.

Fig. 3.



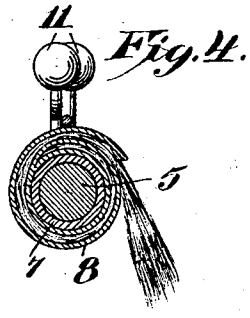


Fig. 4.

Samuel A. Spangenberg, Inventor

Witnesses
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No. 765,863. Patented July 26, 1904.

UNITED STATES PATENT OFFICE.

SAMUEL AUGUSTUS SPANGENBERG, OF BELLEVILLE, CANADA.

HAIR-CURLER.

SPECIFICATION forming part of Letters Patent No. 765,863, dated July 26, 1904.

Application filed August 14, 1903. Serial No. 169,516. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL AUGUSTUS SPANGENBERG, a citizen of the Dominion of Canada, residing at Belleville, in the county of Hastings and Province of Ontario, Dominion of Canada, have invented a new and useful Hair-Curler, of which the following is a specification.

This invention relates to that class of curlers upon which the hair is wrapped and left for a considerable period of time as distinguished from curling-irons and like devices.

The object is to provide a novel and simple structure which may be readily applied to and will efficiently curl the hair. It is securely held in operative relation and is capable of being constructed so that its appearance when in use will be hardly noticeable.

The preferred form of construction is illustrated in the accompanying drawings and described in the specification; but the invention is not limited to the exact details of construction set forth.

In the drawings, Figure 1 is a perspective view of the curling device when opened. Fig. 2 is a side elevation of the same closed. Fig. 3 is a longitudinal sectional view through the structure, and Fig. 4 is a transverse sectional view.

Similar reference-numerals indicate corresponding parts in all the figures of the drawings.

In the embodiment illustrated a supporting element is employed which is in the form of a spool 5, having flanged heads 6 at its ends. Revolubly mounted on this spool between the heads is a cylinder 7, to which is secured a flexible flap 8. The flap is fastened in any desired manner, but is fixed to the cylinder so as to be revolved therewith, and thus upon such revolution said flap will be wrapped about the cylinder. The flap and cylinder constitute the holding means for the hair, and in connection therewith clamping means are employed in the form of fingers 9, hinged at their outer ends to the heads, as shown at 10, and bent so as to be foldable into intersecting relation longitudinally of and over the spool and flap. The free terminals of the fingers are provided with outstanding heads 11, which are adapted to detachably interlock when the fingers are in intersecting relation, as is clearly illustrated.

In use the hair is wrapped upon the cylinder and spool between the convolutions of the flap, after which the fingers are interlocked and will clamp against the body thus formed sufficiently to prevent the rotation thereof, and thus holding the curling device securely in place. It will therefore be apparent that a curler constructed in accordance with the present invention may be cheaply made, readily applied, and constitutes an efficient device for the purpose. The structure has been illustrated on a comparatively large scale in order to clearly set forth the parts without confusion; but in practice the device will be so small that it will not be noticeable when in use.

From the foregoing it is thought that the construction, operation, and many advantages of the herein-described invention will be apparent to those skilled in the art without further description, and it will be understood that various changes in the size, shape, proportion, and minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

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

1. In a hair-curler, the combination with a supporting element, of a flap constructed to be wrapped about the same, fingers constructed to interlock at their free ends over the flap when wrapped upon the supporting element and prevent the unwrapping of said flap, and hinges connecting the fingers and the ends of the supporting element.

2. In a hair-curler, the combination with a supporting element comprising a spool having heads, of a cylinder revolubly mounted on the spool between the heads, a flexible flap secured to the cylinder and capable of being wrapped thereon, and clamping-fingers hinged at their outer ends to the heads and having heads at their free ends adapted to interlock over the flap when in wrapped condition.

3. In a hair-curler, the combination with a

supporting element comprising a spool having heads, of a cylinder revolubly mounted on the spool between the heads, a flexible flap secured to the cylinder and capable of being wrapped thereupon, and clamping means carried by the heads and adapted to lock over the flap when in wrapped condition.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

SAMUEL AUGUSTUS SPANGENBERG.

Witnesses:

JNO. TAYLOR,

W. A. CHAPMAN.