

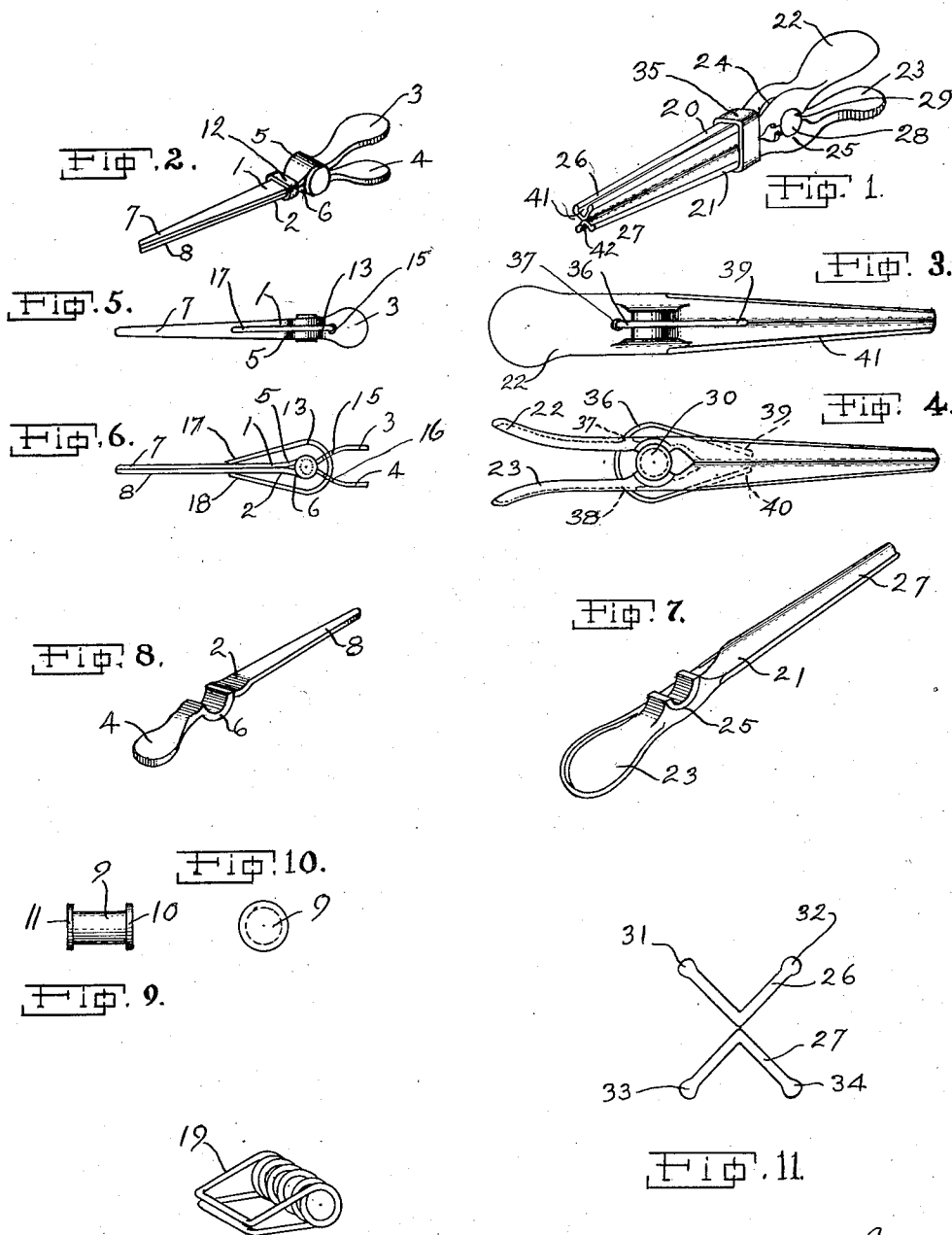
May 14, 1940.

F. M. JONES

2,200,624

HAIR CLIP AND CURLER

Filed March 3, 1938



Francis M. Jones.
INVENTOR.

BY: A. B. McCall.
ATTORNEYS.

UNITED STATES PATENT OFFICE

2,200,624

HAIR CLIP AND CURLER

Frances M. Jones, Burlington, Iowa

Application March 3, 1938, Serial No. 193,667

3 Claims. (Cl. 132—31)

My invention relates to hair clasps and particularly to the class of devices used in curling and setting hair et cetera.

An object being in my invention to provide a convenient, practical and inexpensive curler and clip to be used on ladies' hair, and for holding the curls in desired position over a selected period of time and for manipulating the curls to place them in position where they may be held for such time.

A further purpose of my invention is to provide a hair clasp subject to a construction in more than one size and more than one purpose according to its size; wherein the clasp of smaller size known as a hair clip would be utilized for holding hair curls after the curls have been rolled and prepared for the same by utilizing the larger form known as a hair curler.

A particular purpose of my invention is to provide such a hair clasp with its clamping arms both made exactly alike throughout and with their pivotal center provided in a floating rivet with the clamping arms pivotally centered thereon, while the hair gripping end of the clamping arms or fingers as well as the pressure contact of the pivoted arms on the floating rivet would be exerted by a rubber band or spring resiliently urging the bearing portion of the clamping arms in their pressure from opposite sides against the floating rivet and resiliently urging the hair clamping finger portion of the clamping arms into a pressure contact together throughout a major portion of the finger length.

I attain the objects of my invention in the device which I shall herein describe as I refer to the illustrations thereof in the drawing.

Referring to the drawing:

Fig. 1 is a perspective of the hair curler form of my invention utilizing a rubber band.

Fig. 2 is a perspective of the hair clip form of my invention utilizing a rubber band.

Fig. 3 is a top view of the curler shown in Fig. 1 but using a spring instead of the rubber band.

Fig. 4 is a side view of the curler shown in Fig. 3.

Fig. 5 is a top view of the hair clip shown in Fig. 2 but using a spring.

Fig. 6 is a side view of the hair clip shown in Fig. 5.

Fig. 7 is a perspective of a detailed view of one of the curler clamping arm members showing the hand grip shape, the bearing portion and the V-shaped curler finger thereof.

Fig. 8 is a perspective of a detailed view of one of the hair clip clamping arm members showing the preferred shape of the hand grip portion, the bearing portion and the hair clip finger.

Fig. 9 is a side view of the floating rivet preferred.

Fig. 10 is an end view of the same.

Fig. 11 is an end view of the two contacting V-shaped curler fingers.

Fig. 12 is a perspective of an alternative form of spring, operative with my device.

Referring to the details of construction of my invention and the manner of using the same, I provide my invention in two forms, each of which may be utilized for a different purpose in the preparation of a lady's hair while yet remaining within the scope of my invention. To accomplish my purposes, for instance, I find it possible to utilize the benefits of construction in my invention in a manner permitting the smaller hair clip size to be used for holding a lady's hair curl overnight when setting hair, while with the same mechanical operating features of the invention, I find it practical to make a hair curler larger than the hair clip to be utilized as the means by which the hair curl may be manipulated, rolled and prepared to be fixed in position where it may be held overnight by the smaller hair clip above mentioned.

It will be observed in the drawing that a valued feature of my invention is found in a detail of its construction permitting both of the operating clamping arms of a hair clip or hair curler form of the invention, to be made exactly alike with each operatively fitting up on the floating rivet by pressure only; and it is conceivable that a number of modifications in the ornamental construction of my device as well as the size may be provided without departing from the scope of my invention.

In this respect, it is obvious that some form of spring or rubber band will be needed to exert the necessary pressure against the clamping arms of the curler or clip to hold their bearings pivotally against the floating rivet as well as to simultaneously hold the clamping fingers of the clip or curler firmly together throughout the greater portion of their length from the pivotal center out.

I shall now point out in more detail the merits of my invention as I refer to the drawing in the description thereof; for instance, in the smaller and hair clip form of my invention, I provide a pair of clamping arms 1 and 2 made exactly alike and each shaped to define a hand grip portion 3 and 4, a bearing portion 5 and 6 and a hair grip finger 7 and 8 each respectively. These bearing members 5 and 6 are adapted to exert an inward pressure against a floating rivet 9 having terminal flanges 10 and 11 at the same time bearings 5 and 6 operatively and pivotally engage floating rivet 9 by pressure only, the hair clip fingers 7 and 8 are adapted to normally press against each other throughout a greater portion of their length; while the means by which I accomplish this bearing pressure and finger pressure simultaneously is provided in a rubber band 12 en-

compassing the clamping arms about the finger portions thereof back adjacent the bearing position of the arms just forward over the floating rivet 9. I thus use the rubber band as one practical means for accomplishing this purpose; while in fact, a spring 13 is found to be very practical and inexpensive for accomplishing the same purpose. Spring 13 is centrally disposed in a longitudinal position as it encompasses the bearing portion of the clamping arms while it extends through openings 15 and 16 in the hand grip portions 3 and 4 and reaches out substantially forward on the hair clip fingers 7 and 8 anchoring the free ends 17 and 18 thereof against these fingers as it thus serves the double purpose of firmly holding the bearings together upon floating rivet 9 and at the same time, tending to hold the grip fingers 7 and 8 together. This type of spring looks well and is not in the way, although other types of springs may conceivably be used, for instance, such as spring 19 for accomplishing the desired pressure for the bearings and fingers by providing flanges 10 and 11 on floating rivet 9 there will be a tendency too for the pressure means, the rubber band or a spring to hold the hair clip fingers in proper fitting alignment throughout their length.

I have found it very practical to utilize the entire principle of my invention in my beauty parlor with the device provided in two sizes with the smaller size used as a hair clip and the larger size with a slight modification wholly within the scope of this invention utilized as a hair curler in the preparation of a lady's hair and curls ready for the smaller hair clip to hold the curl overnight.

It will therefore be observed in the drawing that in the hair curler form of my invention, I provide a pair of clamping arms 20 and 21 having hand grips 22 and 23 with integral bearing members 24 and 25 and the finger clamps 26 and 27.

These bearing members 24 and 25 engage a larger floating rivet 28, having terminal flanges 29 and 30 with the engagement by pressure only.

It will be noted that finger clamps 26 and 27 are preferably V-shaped in cross sections each with the outer edges 31, 32, 33 and 34 preferably shaped either in rounded or enlarged form to avoid injuring the hair and provide a more uniform rounded curl therewith.

I find it practical to use a rubber band 35 with it encompassing the finger clamps 26 and 27 back adjacent the bearing portion of the clamping arms to accomplish the pressure means needed for holding the bearing members firmly in contact with the floating rivet 28 between flanges 29 and 30 while at the same time, it tends to hold clamping fingers 26 and 27 firmly together for the curler.

It is practical however to use a spring member 36 or a spring member 19 for this same purpose; when spring 36 is used, it may extend through openings or slots 37 and 38 in the hand grip members 22 and 23 and disposed in a longitudinal position, will encompass the bearing portion of the curler with the free ends 39 and 40 of this spring 36 terminating within the V-shaped slots 41 and 42 of finger clamps 26 and 27 substantially forward of the bearing position.

It is conceivable that wholly within the scope of my invention slight changes may be made in the form thereof and in the details of construction of means adapted to provide the desired pressure for the bearings and hair clip or

curler fingers but the salient features of my invention have been herein set forth and having thus described the nature of my invention, what I claim is:

1. A hair curler comprising a pair of clamping arms of like size and shape and each shaped at one end to define a hand grip, and shaped at a position adjacent said hand grip to define on each an integral bearing, said arms shaped throughout the balance of their length each to define a V form of each finger adapted to clamp together throughout the greater portion of their length with the adjacent fingers, said curler fingers having their outer edges provided with integral means for more effectively shaping and protecting hair being curled thereon, a floating rivet provided with terminal flanges and resiliently engaged on opposite sides by said clamping arm bearings and a relatively small strong rubber band encompassing said clamping arms of the curler forward of the bearing position thereof, said rubber band exerting a resilient pressure of said bearings of the clamping arms from opposite sides against said rivet and exerting said resilient inward pressure likewise against said curler fingers on one side of said floating rivet in a manner substantially clamping them together approximately throughout their contacting ends along the inner edge of said V shape of the curler fingers.

2. A hair curler comprising a pair of clamping arms of like size and shape and each shaped at one end to define a hand grip and shaped at a position adjacent said hand grip to define on each an integral bearing, said arms shaped throughout the balance of their length each to define a V shaped channeled hair curler finger with the bottom portion of the V form of each finger adapted to clamp together throughout the greater portion of their length with the adjacent fingers, said curler fingers having their outer edges provided with integral means for more effectively shaping and protecting hair being curled thereon; a floating rivet provided with terminal flanges and resiliently engaged on opposite sides by said clamping arm bearings, a resilient clamping member about said curler arms and exerting an inward pressure against each of said arms holding them pivotally in place about said floating rivet and exerting said resilient inward pressure likewise against said curler fingers on one side of said floating rivet in a manner substantially clamping them together approximately throughout their contacting ends along the inner edge of said V shape of the curler fingers.

3. As a new article of manufacture a hair curler comprising a pair of clasping arms each shaped to define at one end a hair curler blade and at the other end a hand grip and each of like size and shape, said arms each also shaped to define co-operating bearings, at a position intermediate their ends, a floating rivet provided between said bearings and having terminal flanges for holding said arms pivotally into co-registering alignment, a resilient clamping means about said arms adjacent said floating rivet and operatively urging an inward pressure against said arms and their bearings respectively against said rivet from opposite sides and said resilient clamping member exerting said inward pressure at a position relatively forward of said floating rivet position to substantially clasp fingers of said curler together approximately throughout their contacting ends.