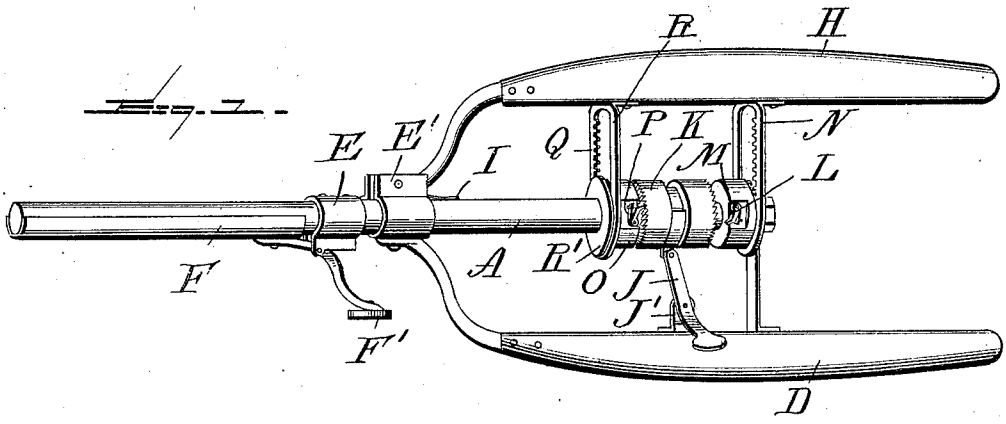
No. 688,192. Patented Dec. 3, 1901.

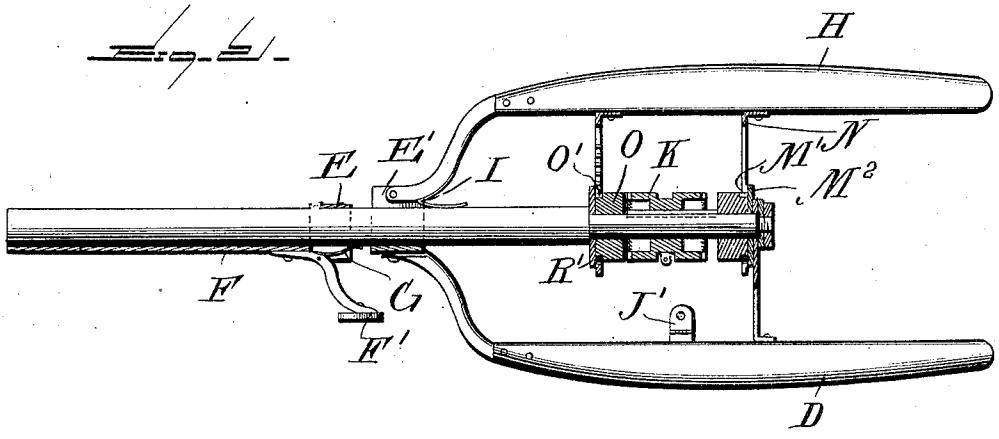
E. MYETTE.

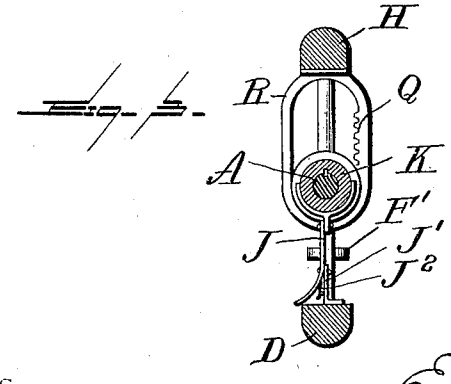
HAIR CURLER.

(Application filed Sept. 20, 1901.)

(No Model.)







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HAIR-CURLER.

SPECIFICATION forming part of Letters Patent No. 688,192, dated December 3, 1901.

Application filed September 20, 1901. Serial No. 75,907. (No model.)

To all whom it may concern:

Be it known that I, EDWARD MYETTE, a citizen of the United States, residing at Fairhaven, in the county of Whatcom and State of Washington, have invented certain new and useful Improvements in Curling-Irons; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to an improvement in curling-irons; and it consists in the provision of means whereby the iron may be rotated in opposite directions without turning the handles, geared means being provided whereby the shaft may be made to rotate as the handles are forced together by the grip of the hand and returned to their normal positions by means of a spring, a clutch being provided whereby the shaft may be made to rotate in one direction or the other, as may be desired.

The invention relates, further, to various details of construction, which will be hereinafter more fully described and then specifically defined in the appended claims and illustrated in the accompanying drawings, which, with the letters of reference marked thereon, form a part of this application, and in which drawings—

Figure 1 is a perspective view of my improved curling-iron. Fig. 2 is a central longitudinal sectional view through the iron, and Fig. 3 is a cross-sectional view.

Reference now being had to the details of the drawings by letter, A designates the shaft of the iron, which is suitably journaled in the bearings B and C, which are supported on the handle D. Fastened to the shaft is a collar E, to which the pivoted clamping-arm F is fastened, said arm being held in a clamping position by means of a spring G. The arm F is provided with a suitable button F′ on the end of a projecting handle, and the clamping portion of said arm is concaved to conform to the curvature of the shaft against which it is normally held. The second handle H has pivotal connection with the ears E′ of the collar E and is held at its farthest outward throw by means of a spring I.

Fastened to rotate with the shaft is a clutch K, which is splined on the shaft and is actuated longitudinally on said shaft by means of a lever J, having curved arms which rest in an annular groove in the clutch. This lever J is pivoted to the bracket J′ on the handle D and may be held in different positions by means of a spring J^2 engaging teeth on the bracket. Each end of said clutch has a series of ratchet-teeth about its circumference, the teeth at one end engaging a pawl L, which is pivoted to a collar M, loosely journaled on the shaft A. This collar M has a series of teeth M′ about one end and has a disk M^2 fastened to the end adjacent to said teeth. An elongated ring N is fastened to the pivoted handle and is provided with a series of ratchet-teeth on its inner circumference which are adapted to mesh with the teeth on the collar M, the teeth of the ring and said collar being held in mesh by said disk, which bears against the face of the ring on the opposite side from that of the collar. A similar collar O is journaled loosely on the shaft at the other end of the clutch and carries a pawl P, which is designed to mesh with the teeth at the adjacent end of the clutch. This collar O has a series of teeth O′ about its circumference at one end thereof, which are in mesh with the teeth Q on the inner circumference of an oblong ring R, which is fastened to the pivoted handle. A disk R′ holds the teeth of the ring R in engagement with the teeth on the circumference of the collar O.

From the foregoing it will be observed that by throwing the clutch in one direction or the other on the shaft and forcing the handles together the shaft may be made to rotate in one direction or the other without the necessity of rotating the handles, as is necessary with curling-irons commonly in use.

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

1. A curling-iron, comprising a stationary handle, a shaft journaled in suitable bearings thereon, a pivoted handle, a clutch splined on said shaft, a lever engaging said clutch and carried by the stationary handle, whereby the

clutch is slid upon the shaft, rack-bars carried by the pivoted handle, collars having teeth on their circumferences, and loosely journaled upon the shaft, pawls carried by said collars, teeth on the clutch engaging said pawls, and teeth of said collars engaging said rack-bars, as set forth.

2. In a curling-iron, the stationary handle, the shaft mounted in suitable bearings on said handle, a pivoted handle fastened to the stationary handle, a clutch splined on said shaft, a lever engaging said clutch, teeth on the clutch about its circumference near the ends thereof, the collars loosely journaled on the shaft and having teeth about their circumferences, pawls carried, one by each of said collars and designed to engage said teeth of the clutch when driven in one direction, the elongated ring having ratchet-teeth on its inner circumference for engagement with the teeth of said collars, disks for holding the teeth of said rings in engagement with the teeth of the collars, as set forth.

In testimony whereof I hereunto affix my signature in presence of two witnesses.

his
EDWARD × MYETTE.
mark

Witnesses:
U. L. COLLINS,
R. HELMS.