

No. 664,030.

Patented Dec. 18, 1900.

J. H. WHEELER.
COMB CLEANER.

(Application filed July 24, 1900.)

(No Model.)

Fig. 1.

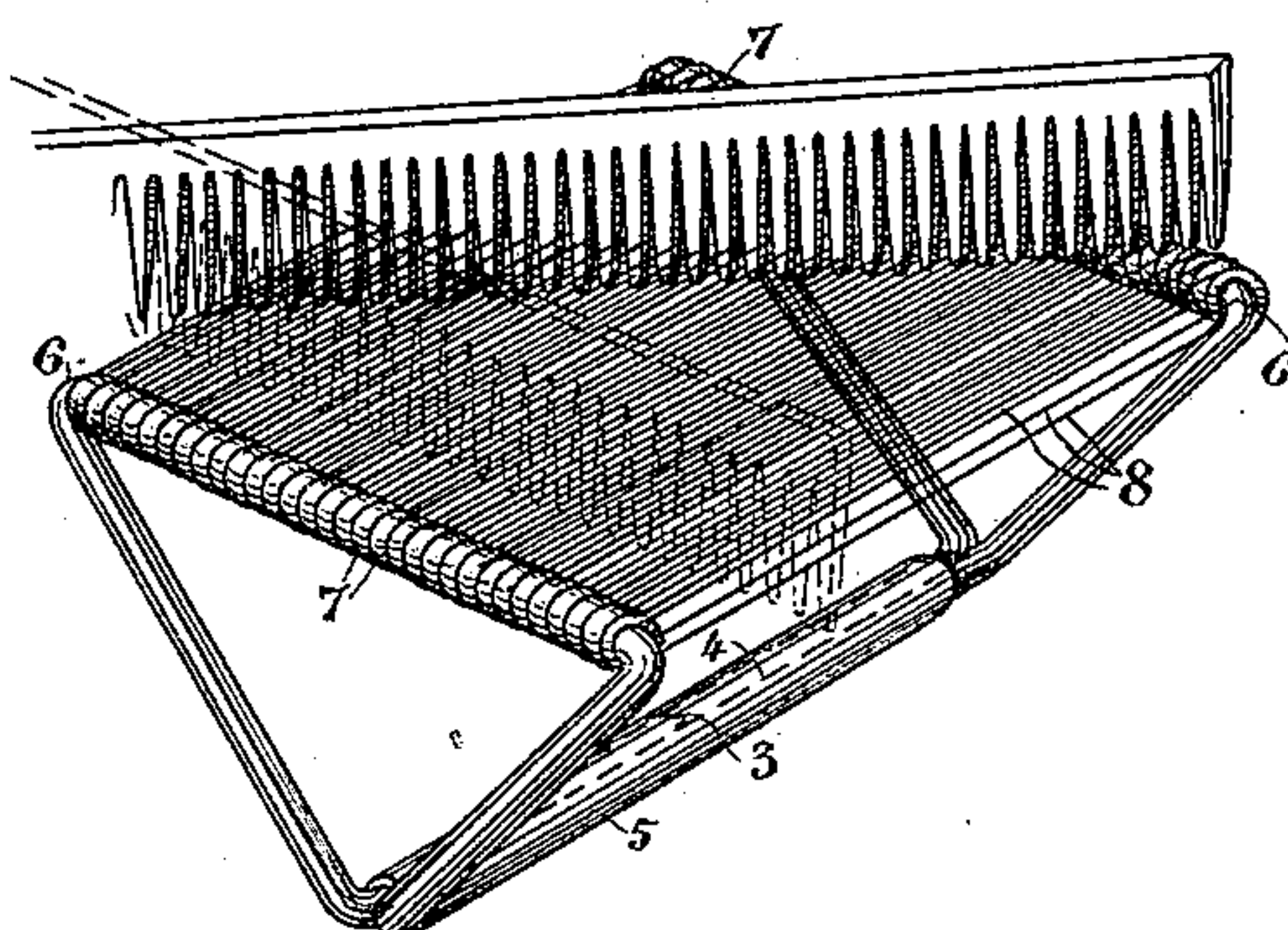
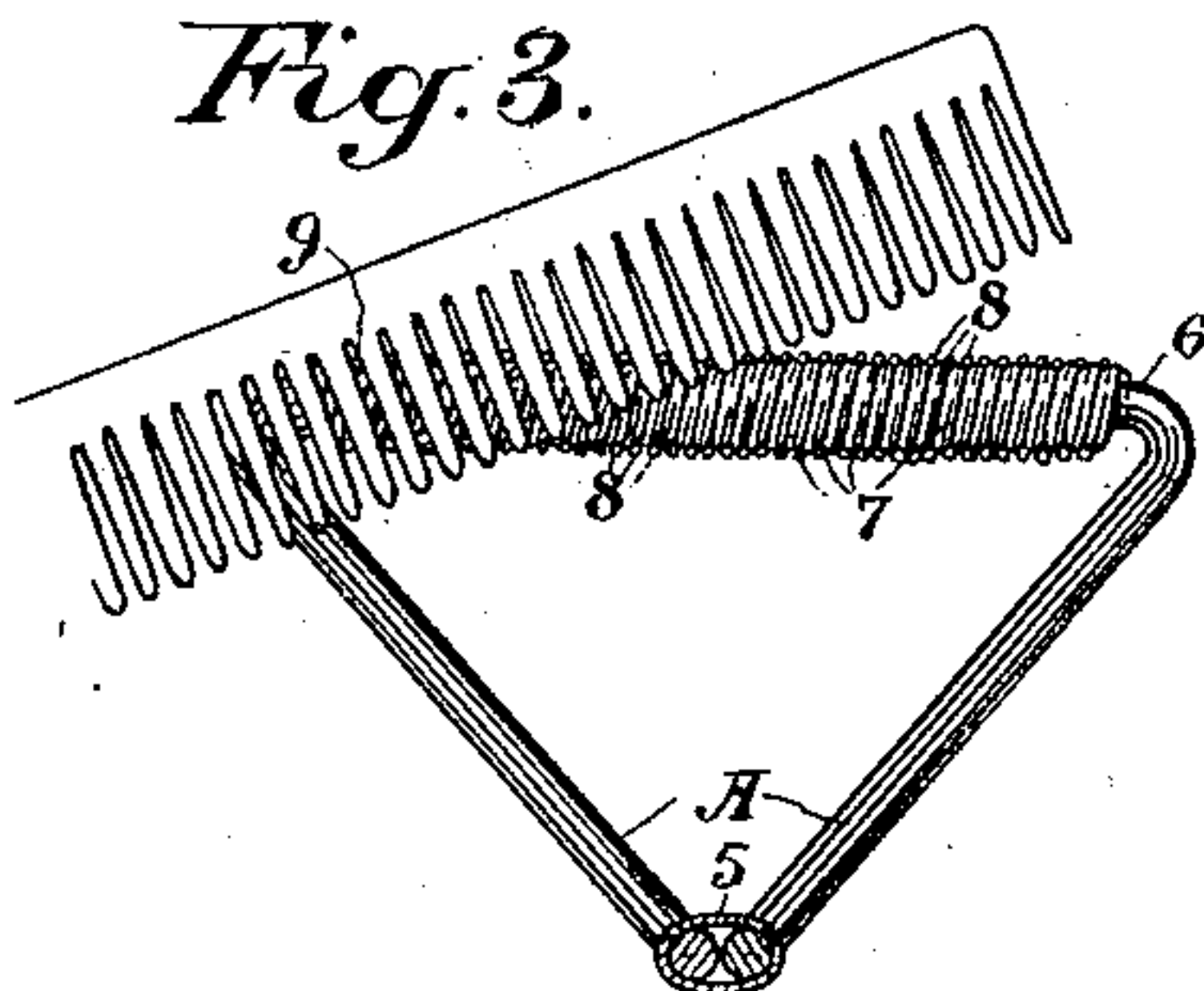


Fig. 2.



Fig. 3.



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JAMES H. WHEELER, OF SAN FRANCISCO, CALIFORNIA, ASSIGNOR OF ONE-HALF TO WILLIAM WILSON, OF SAME PLACE.

COMB-CLEANER.

SPECIFICATION forming part of Letters Patent No. 664,030, dated December 18, 1900.

Application filed July 24, 1900. Serial No. 24,706. (No model.)

To all whom it may concern:

Be it known that I, JAMES H. WHEELER, a citizen of the United States, residing in the city and county of San Francisco, in the State of California, have invented an Improvement in Comb-Cleaners; and I hereby declare the following to be a full, clear, and exact description of the same.

My invention relates to a device for cleaning the teeth of combs and the like.

It consists of a frame open on two sides, with multiple rows of fine wire equidistantly separated, connecting two opposite and parallel edges of the two ends of this frame.

It also comprises details of construction which will be more fully shown by reference to the drawings now described.

Figure 1 is a view of the comb-cleaner, showing its form and mode of operation. Fig. 2 is a sectional view through the parallel parts of the frame, showing the winding of the wires. Fig. 3 is a lateral section through the cleaner, showing the comb ready to be withdrawn.

I prefer to make my comb-cleaner as shown in Fig. 1.

A is the framework, made from a single piece of heavy wire, having the two ends triangular, with the similar sides of these triangles in the same plane. The ends of the wire are brought together at 3 and may be brazed or otherwise suitably connected to each other and to the adjacent part of the wire 4 forming the handle 5. A metal piece may surround this, covering the joint, and then forming a neat handle. On the parallel sides 6 of these triangular ends are closely-wound spring-wire coils 7. In the interstices of these coils are tightly drawn fine wires 8. The size of the wire 7 is the gage determining the distance between the wires 8, and thus the cleaner may be made in any number of sizes to fit the various sizes of comb-teeth. This fine wire 8 is wound upon the sides 6 from opposite ends of the coils 7, so as to form two rows lying in parallel planes, the distance between these planes being equal to the diameter of the frame-wire A, and the wires in each plane are parallel and separated by the thickness of the coil-spring wire 7. This closely-coiled spring-wire not only spaces the cleaning-wires above the frame-wire, but

also below it, and so prevents them from slipping one upon another, as would occur in the lower plane if only those in the upper plane were fixedly separated. It also forms a locking device for these wires. Furthermore, the feature of the coil causes the wires of the lower plane to space intermediate with the wires of the upper plane, and thereby greatly increases the efficiency of the cleaner. By the use of varying sizes of wire for this coil or gage I readily meet the demands for cleaners for all sizes of combs and am accordingly and by the peculiar construction of my device able to produce the same at an exceedingly low figure of cost.

To operate, the teeth of the comb are passed down and between the cleaning-wires 8 and the comb moved from end to end of these wires, and by such pivotal motion of the comb upon the wires, as shown in Fig. 3 at 9, the teeth of the comb are entirely freed from the usual accumulation of dandruff and oil.

The simple and compact style of my device makes it a neat and attractive article for the dressing-table, carrying-case, &c.

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

1. The combination of a frame or holder having parallel sides, wire coils upon said sides, and a wire or strand wound around the sides and in the interstices of the coils whereby said wire is equidistantly and fixedly separated to form two rows of wires with the wires of one row spacing intermediate with the wires of the other row.

2. In a comb-cleaner, the combination of a frame, of heavy wire bent to form two triangular ends and joined to form the handle, a tightly-wound spring-coil upon each of the sides 6 of the frame, and a fine wire or wires wound continuously around these two sides and in the interstices of the coils to form two rows of cleaning-wires lying in parallel planes substantially as described.

In witness whereof I have hereunto set my hand.

JAMES H. WHEELER.

Witnesses:

S. H. NOURSE,

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