(No Model.)

# C. D. HALDEMAN.

## HORSE TAIL TIE.

No. 549,638. Patented Nov. 12, 1895.

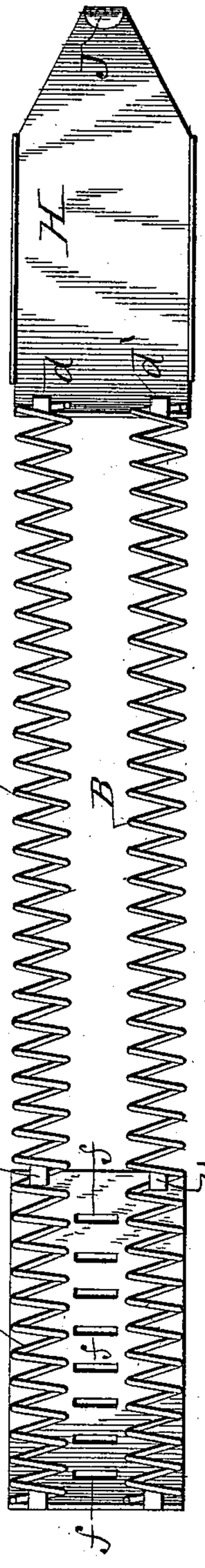


Fig. 1.

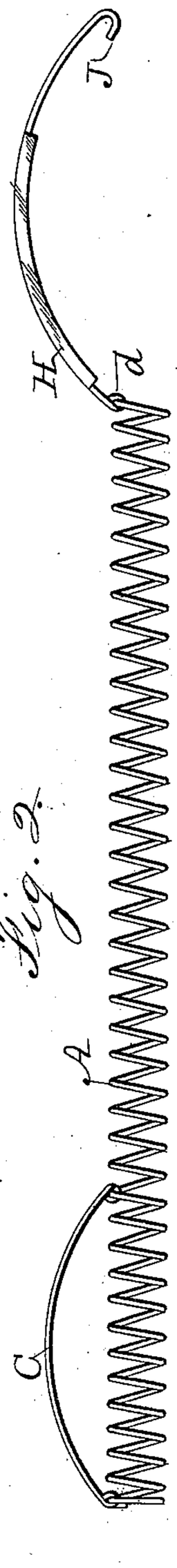


Fig. 2.

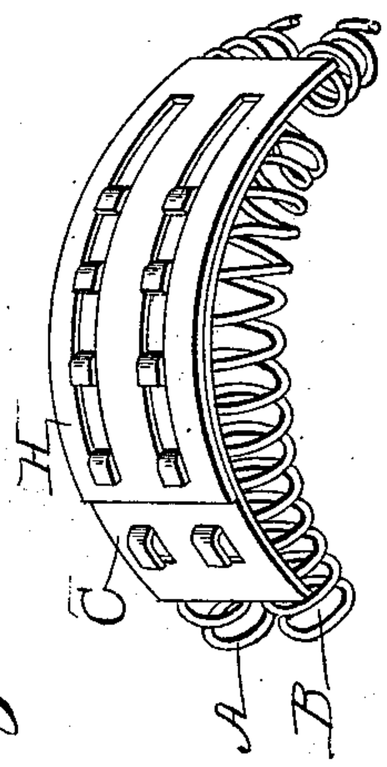


Fig. 4.

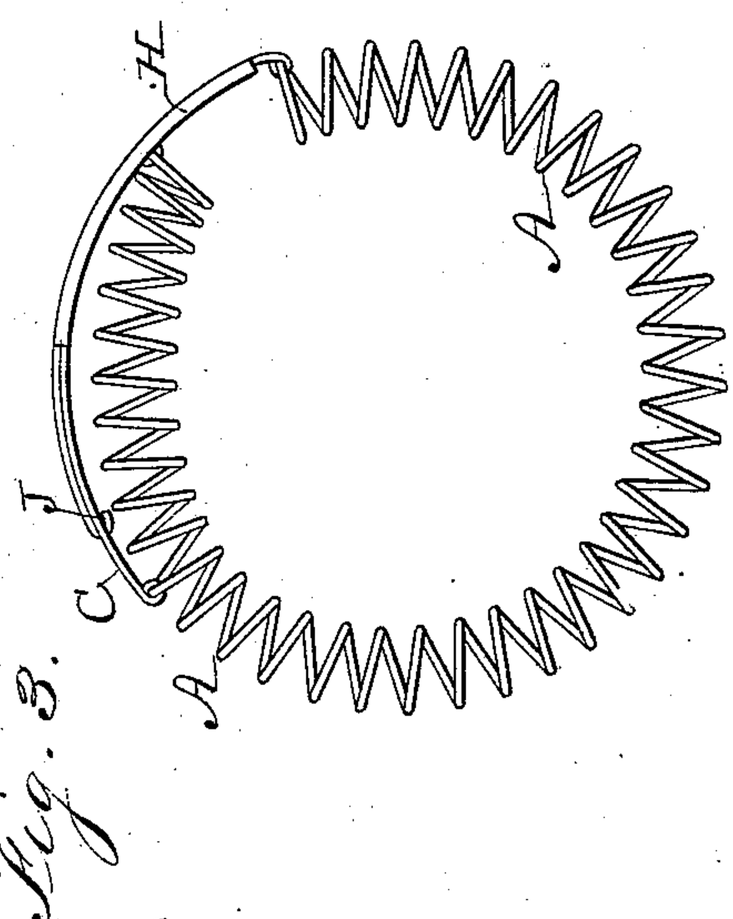


Fig. 3.

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# UNITED STATES PATENT OFFICE.

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## HORSE-TAIL TIE.

SPECIFICATION forming part of Letters Patent No. 549,638, dated November 12, 1895.

Application filed December 7, 1894. Serial No. 531,162. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES D. HALDEMAN, a citizen of the United States of America, residing at Des Moines, in the county of Polk and State of Iowa, have invented an Improved Horse-Tail Tie, of which the following is a specification.

Heretofore two metal plates have been hinged together by means of two spiral springs in such a manner that their free edges could be detachably fastened together and the space between their hinged edges enlarged by stretching the springs, so that when the plates were clasped around the tail of a horse the contractile force of the springs would clamp the plates fast to the tail.

My object is to clamp two parallel coiled springs entirely around a horse's tail by means of plates fixed to the ends of the springs in such a manner that the coils of the springs will become partially embedded in the hair at two different planes or points of elevation and the plates will be on the outside of the springs and not in contact with the hair.

My invention consists in the device hereinafter set forth, pointed out in the claim, and illustrated in the accompanying drawings, in which—

Figure 1 shows the coils extended and the inside surfaces of the metal clasps fixed to the ends of the wire coils. Fig. 2 is an edge view of the device shown in Fig. 1. Fig. 3 is a perspective view of the complete tie in a closed position. Fig. 4 shows a modified form of the overlying clasping-plates on the ends of the wire coils.

The letters A and B designate two parallel lengths of coiled wire, preferably brass.

C is a metal plate slightly curved and bent at right angles at one end to project over the ends of the wires A and B, that are fastened thereto by soldering or in any suitable way. The other end of the plate has integral hooks *d* and *d'*, adapted to engage coils of the wire, as required, to retain the end of the plate connected with the wires at some distance from their ends. A series of transverse slots *f* in the plate allow a plate at the other ends of the wires to be detachably and adjustably connected with the plate C, as required, to fasten the complete device to a horse's tail.

H is a metal plate corresponding in size and form with the plate C and is fixed to the other ends of the wires A and B to project outward therefrom.

J is an integral hook on the free end of the plate H, adapted to enter the slots *f* in the plate C and to overlie and clasp fast thereto, as shown in Fig. 3, and as required in fastening and unfastening the complete device to a horse's tail. Flanges at its parallel edges prevent it from lateral movement relative to the under plate C. By thus connecting the ends of the wire coils A and B with the plates C and H, that extend longitudinally in the plane of the wire coils, the two parallel coils and not the plates are adapted to engage the hair of a horse's tail and to become embedded therein, as required, to prevent the tie from slipping or the hair that is clasped thereby from escaping from the hold of the tie.

To tie up a horse's tail with my improved device, I double up the hair and then draw the wires A and B around the hair and clasp the metal plates C and H together. The resiliency of the hair will cause them to press outward above and below and also between the parallel lengths of wire and prevent the device from slipping or becoming loose and displaced until the hook J is withdrawn from the plate A by manual effort.

I claim as my invention—

An improved horse tail tie, comprising two lengths of coiled wire in parallel position, a curved metal plate, having a series of transverse slots, fixed to the parallel ends of the two wire coils at one of its ends and to the parallel wire coils at some distance from their ends to overlay them, and a second curved metal plate, having a hook at one end, fixed to the other parallel ends of the wire coils to project outward therefrom and adapted to overlay and detachably connect with the first named curved metal plate in the manner set forth for the purposes stated.

CHARLES D. HALDEMAN.

Witnesses:
JNO. H. DE WOLF,
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