

D. T. FRENCH.
UPPER HANGER.
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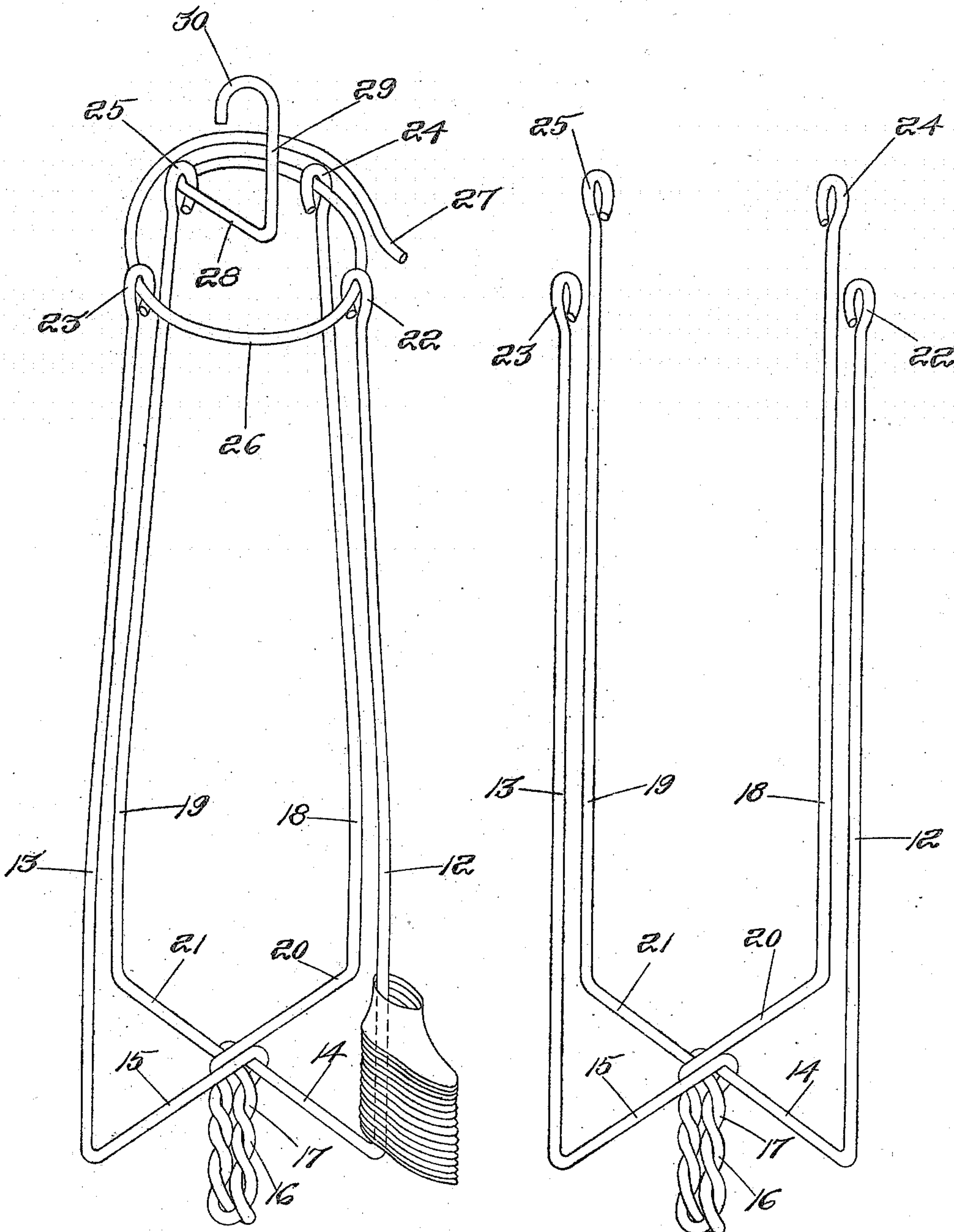


Fig. 1.

Witnesses:
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Fig. 2.

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UNITED STATES PATENT OFFICE.

DENNIS T. FRENCH, OF EXETER, NEW HAMPSHIRE, ASSIGNOR TO FRENCH UPPER HANGER COMPANY, OF EXETER, NEW HAMPSHIRE, A COPARTNERSHIP.

UPPER-HANGER.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, DENNIS T. FRENCH, citizen of the United States, residing at Exeter, in the county of Rockingham and State of New Hampshire, have invented a certain new and useful Improvement in Upper-Hangers, of which the following is a specification, reference being had therein to the accompanying drawings.

10 In shoe factories it is customary to make up the shoes in lots of sufficient size for a case, one dozen, two dozen, or more, according to the size of the case, and to keep all of the shoes belonging to that particular lot together as they pass from one operator to another in the different stages of making up the shoes. For convenience in keeping the shoe uppers together and of carrying them when necessary from one point in the shop to another, it has been customary to tie them together in bundles when they have been stitched, then when the lot is finished to carry them to the lasting room where the next operation is to be performed.

25 The object of the present invention is to provide an upper hanger and holder of simple construction and of few parts but with large capacity, and so constructed that the hanger can be easily attached to and detached from the holder, the hanger when attached to the holder serving as a guard to prevent displacement of the uppers.

35 It is important for convenience to have the holder suspended at a suitable elevation to enable the workman to place the upper upon the holder or remove it therefrom with as little movement of the body as possible. It is also important that the holder should be so constructed that the uppers will not become accidentally displaced therefrom and yet such that they can easily be removed when desired. It is customary also to accompany each lot of uppers with a tag on which is written proper data giving the case number, the number of pairs in the lot and various other data. It is desirable that the holder should be constructed in such manner that the tag can be easily attached to the holder and within easy reach. The style of holder which is generally regarded as being the most convenient is in the form of a hanger which can be suspended from some overhead support, such as a wire, at sufficient height so that the workman can easily

hang it on its support while he is standing on the floor.

The invention will be fully understood from the following description taken in connection with the accompanying drawings, and the novel features are pointed out and clearly defined in the claims at the close of the specification.

In the drawings,—Figure 1 is a perspective view of a device embodying the invention having two pairs of arms. Fig. 2 is a view showing the holder detached from the suspension member.

Referring to the drawings,—the body of the holder is formed of two or more rods, each rod being bent to form a pair of arms with a connecting base portion, the base portions of all of the pairs being interwoven or braided together in such manner as to form a firm union and also preferably in such form as to provide a downwardly hanging loop. In the drawings the device is shown as having two pairs of arms. One pair of upright arms 12, 13, are formed of one rod which is bent to form intermediate its arms two horizontal base portions 14, 15, having intermediate the horizontal portions 14, 15, a downwardly hanging middle portion 16 which is twisted and interwoven or braided with a corresponding downwardly hanging portion 17 in the rod out of which are formed the other pair of arms 18, 19, having horizontal base portions 20, 21, connected with said loop portion 17. By thus interweaving or braiding together the loop portions 16, 17, with each other the base portions of both pairs of arms are firmly united together and brace each other. The base portions 14, 15, of one pair of arms 12, 13, are substantially at right angles with each other and the base portions 20, 21 of the other pair of arms 18, 19, are substantially at right angles with each other and each of the base portions 14, 15, 21, 20 stands substantially at right angles to each of its two adjacent base portions—that is, they all radiate from a center with an angle of 90 degrees between the adjacent base portions.

The arms 12, 13, terminate respectively at their upper ends in eyes 22, 23, and the arms 18, 19 terminate respectively in eyes 24, 25. A coiled rod 26 having a free end 27 is adapted to be engaged with all of the eyes of the upright arms 12, 13, 18, 19, tying them

all together by simply a rotary movement of the coil on its axis running successively through each one of the eyes. As shown in the drawings, Fig. 1, the end 27 would first
 5 be passed through the eye 25, then successively through eyes 24, 22, and 23. This coiled rod 26 is formed with a radially bent portion 28 which at the center of the coil is bent upward forming an upright portion 29
 10 terminating in a hook portion 30 by which the device is suspended from any suitable support. When the hanger is connected with the holder it should be rotated until the radial portion 28 strikes against the eye 25
 15 through which the coil first passed to form a stop or lock. It is preferable to have the upright portion 29 substantially central with the coiled union portion 26 in order to bring the point of suspension central with the
 20 hanger. By simply rotating the hanger member on its axis while the holder member is held stationary the hanger will be disengaged from the eyes of the holder arms. Preferably the upright arms of the holder
 25 are normally parallel with each other or flare slightly outward when the hanger is detached, and the connecting member is coiled to a slightly less diameter than a circle which would join the ends of the arms, so that in
 30 order to engage the hanger with the eyes it will be necessary to spring the arms slightly inward. In this way, after the hanger is connected with the arms there is a slight outward spring pressure of the eyes on the
 35 hanger coil, thus binding the members more firmly together. Preferably the end 27 is turned slightly upward to more surely prevent accidental unlocking of the hanger. The combination loop formed by the braided
 40 loops 6, 17, forms a convenient point of attachment for the tag.

It is obvious that by the use of one other rod another pair of holder arms might be provided having its base interwoven or
 45 braided with the bases of the other two pairs of arms, and in the same way as many pairs of arms as desired may be employed, each pair of arms and their connecting base being formed of a single rod, all having their bases
 50 suitably tied together or interwoven, and the upper ends of all of the arms can be strung together by the same kind of a hanger as shown in Fig. 1. When it is desired to string the shoe uppers upon the holder arms, the
 55 hanger member may be rotated sufficiently to disengage the arms from the hanger, and then after they are strung by a reverse rotation the hanger can be again engaged with the eyes of the arms. When the hanger is
 60 thus engaged with the eyes the shoe uppers will be securely held on the arms and by using the hook as a handle the device with the uppers strung thereon can be carried about from one point to another in the fac-
 65 tory.

What I claim is:

1. In a device of the character described, a plurality of holder portions, each consisting of a single rod bent to form two upright arms terminating in eyes and an intermediate horizontal base portion integral there-
 70 with connecting the lower ends of said arms, in combination with a hanger member consisting of a single rod bent to form a curved guard portion which is adapted to be detach-
 75 ably engaged with the eyes at the upper ends of all of the arms of said holder members and a suspension portion integral with said guard portion.

2. In a device of the character described, a
 80 plurality of holder portions, each consisting of a single rod bent to form two upright arms terminating in eyes and an intermediate horizontal base portion connecting the
 85 lower ends of said arms, in combination with a hanger member bent to form a curved guard portion which is adapted to be detachably engaged with the eyes at the upper ends of all of the arms of said holder mem-
 90 bers and a suspension hook portion integral with said guard portion, the base portions of the holder members being bent to form loops intermediate the ends of the base portion and interwoven with each other.

3. In a device of the character described, a
 95 plurality of holder portions, each consisting of a single rod bent to form two upright arms terminating in eyes and an intermediate horizontal base portion integral there-
 100 with connecting the lower ends of said arms, in combination with a hanger member consisting of a single rod bent to form a curved guard portion which is adapted to be detachably engaged with the eyes at the upper ends
 105 of all of the arms of said holder members, and a suspension hook portion integral with said guard portion, said suspension hook portion having a shank which rises substantially from the center of the curved guard
 110 portion.

4. In a device of the character described, a plurality of pairs of holder arms, each pair of holder arms consisting of a single rod bent to form two upright arms terminating
 115 in eyes at the upper ends and bent at the lower ends of said arms to form horizontal base portions and a connecting loop portion, the loop portion of each pair of arms being interwoven with the loop portion of the
 120 other arms, in combination with a hanger member consisting of a single rod bent to form a curved guard portion which is adapted to be detachably engaged with the eyes at the upper ends of all of said arms and a sus-
 125 pension portion integral with said guard portion.

5. In a device of the character described, a plurality of pairs of holder arms, each pair of holder arms consisting of a single rod bent to form two upright arms terminating
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in eyes at the upper ends and bent at the lower ends of said arms to form horizontal base portions, the base portions of each pair being tied together, in combination with a
5 hanger member consisting of a single rod bent to form a curved guard portion which is adapted to be detachably engaged with the eyes at the upper ends of all of said arms and a suspension portion integral
10 with said guard portion.

6. In a device of the character described, a plurality of pairs of holder arms, each pair of holder arms consisting of a single
15 rod bent to form two upright arms bent at the lower ends of said arms to form hori-

zontal base portions, the base portions of each pair being tied together, in combination with a hanger member consisting of a single rod bent to form a curved guard portion which is adapted to be detachably engaged with the upper ends of all of said arms and a suspension portion integral with said guard portion.

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

DENNIS T. FRENCH.

Witnesses:

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