

No. 659,425.

Patented Oct. 9, 1900.

F. P. WHITE.
HAME AND TRACE CONNECTOR

(Application filed Apr. 28, 1900.)

(No Model.)

Fig. 1

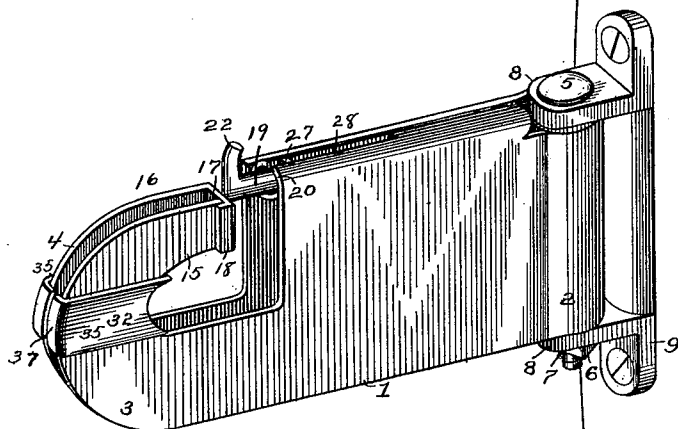


Fig. 2

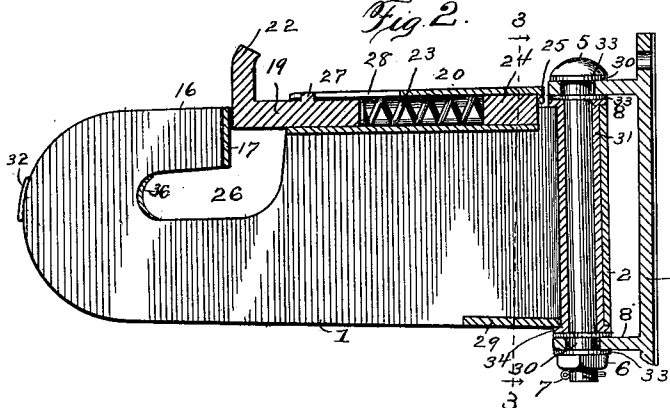


Fig. 3

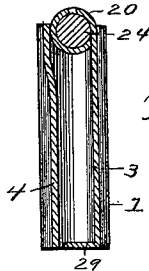
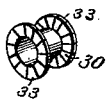


Fig. 5.



Witnesses
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UNITED STATES PATENT OFFICE.

FRANKLIN P. WHITE, OF WILMINGTON, NORTH CAROLINA.

HAME-AND-TRACE CONNECTOR.

SPECIFICATION forming part of Letters Patent No. 659,425, dated October 9, 1900.

Application filed April 28, 1900. Serial No. 14,699. (No model.)

To all whom it may concern:

Be it known that I, FRANKLIN P. WHITE, a citizen of the United States, residing at Wilmington, in the county of New Hanover and State of North Carolina, have invented a new and useful Hame-Hook, of which the following is a specification.

The invention relates to improvements in hame-hooks.

10 The object of the present invention is to improve the construction of hame-hooks and the means for connecting the same to a hame and to provide a simple, inexpensive, and efficient one adapted to enable a trace to be
15 readily engaged with it.

The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed
20 out in the claims hereto appended.

In the drawings, Figure 1 is a perspective view of a hame-hook constructed in accordance with this invention. Fig. 2 is a longitudinal sectional view of the same. Fig. 3
25 is a transverse sectional view on the line 3 3 of Fig. 2. Fig. 4 is a plan view showing the form of the blank of which the hook shown in Figs. 1 and 2 is constructed. Fig. 5 is a detail view of one of the wear-sleeves.

30 Like numerals of reference designate corresponding parts in all the figures of the drawings.

1 designates a hame-hook constructed of a single piece of heavy sheet metal or other
35 suitable material, which is folded between its ends to form an eye 2 and to provide two sides 3 and 4. The eye 2, which is arranged at the front end of the hook, receives a pivot 5, consisting of a pin or bolt having a head at its
40 upper end and provided at its lower end with a nut 6, which is locked in place by a key 7, as clearly illustrated in Fig. 2 of the accompanying drawings; but any other suitable means may be employed for retaining the
45 pivot in the eye of the hame-hook and in the perforations of a pair of ears 8 of a bracket 9. The bracket 9 consists of a plate secured at its ends to a hame 10 and having the ears extending rearward from it and located at points
50 adjacent to its ends. The bracket may be secured to the hame by screws, bolts, or any other suitable fastening devices. The rear

ends of the sides 3 and 4 are provided with similar hooks 15 and 16, which are spaced
55 apart and which are held against lateral separation by an arm 17, extending laterally from the bill of the hook 16 and provided with a lug or extension 18, located at the outer face of the bill of the hook 15, as clearly illustrated in Fig. 1 of the accompanying drawings. The arm
60 17, with its lug 18, is substantially L shaped, and it forms an abutting face for a spring-actuated bolt 19, which is adapted to close the mouth of the hook to prevent a trace from becoming accidentally disengaged therefrom.
65 The bolt is mounted in a tubular housing or casing 20, consisting of an extension 21 of the upper edge of the side 3 of the hook, and the said extension is rolled and arranged between the two sides of the hame-hook and is
70 adapted to space such sides apart and prevent them from collapsing. The bolt is provided with an arm 22, and it is thrown outward or rearward by a coiled spring 23, interposed between the inner end of the bolt and
75 a plug 24, which is retained in the front end of the tubular extension by a tongue 25, formed integral with the said extension and bent downward, as clearly shown in Fig. 2. The sides of the hame-hook are provided
80 with substantially L-shaped slots 26 to form the hooks 15 and 16, and the arm 22 of the bolt projects upward, as clearly shown in Figs. 1 and 2, and is adapted to be engaged by a ring, link, or eye, whereby it may be
85 readily moved inward to permit such ring, link, or eye to be engaged with the hame-hook and to be arranged in the L-shaped slot 26. The bolt is provided between its ends with a lug or projection 27, which operates
90 in a slot of the extension 21. The slot 28 extends from the forward rear end of the tubular casing or housing of the bolt, as shown in the accompanying drawings; but any other suitable means may be employed for preventing
95 the bolt from turning in the housing or casing.

The sides of the hame-hook are spaced apart at the bottom by means of a laterally-bent extension or flange 29, formed integral
100 with the side 3, as clearly shown in Figs. 3 and 5.

In order to enable the parts when worn to be renewed without discarding the hook or

the bracket, bearing-sleeves 30 and 31 are provided and a cuff 32 is employed. The bearing-sleeves 30 are arranged in the perforations of the ears 8 and are constructed of sheet metal or other suitable material, and their ends are split and bent outward to provide upper and lower flanges 33, arranged at the upper and lower faces of the said ears. The sleeve 31, which is arranged in the eye of the hame-hook, is constructed substantially the same as the short sleeve 30 and is provided at its ends with split annular flanges 34, arranged at the upper and lower edges of the hook. The sleeve is retained in the eye of the hook by the extension which forms the tubular casing or housing and the transverse spacing-flange 29. The cuff 32 consists of a substantially-horizontal strip or band extending around the hooks and composed of two sides 35 and a transverse connecting-piece 36, which is curved to conform to the configuration of the adjacent edges of the hame-hook. The terminals of the sides 35 are bent inward to form laterally-projecting lugs 37, which are curved to fit the adjacent edges of the hame-hook, as clearly shown in Fig. 1. The sleeves and the cuff may be readily renewed when worn and receive all the wear, and they obviate the necessity of discarding the hame-hook or the bracket.

It will be seen that the hame-hook is exceedingly simple and inexpensive in construction, that it possesses great strength and durability, and that the parts which receive the wear are arranged so that they may be readily removed and renewed at a trifling cost. It will also be apparent that the hame-hook may be readily constructed of a single piece of sheet metal or similar material, that a substantial structure is provided, and that the tubular housing or casing of the bolt serves to space the sides of the hame-hook at their upper edges. Furthermore, it will be clear that the arm of the spring-actuated bolt is arranged so that it may be readily engaged and moved backward by a link, ring, or eye, and that the latter is securely confined in the slot of the hame-hook.

What is claimed is—

1. In a device of the class described, a hame-hook constructed of a single piece of material bent to form an eye and to provide two

sides, each side being provided with an engaging portion or hook, and an arm extending from the bill of one of the engaging portions or hooks across the space between the latter, and terminating in a lug engaging the outer face of the adjacent portion or hook, said arm being also arranged to form an abutting face for a spring-actuated bolt, substantially as described.

2. A device of the class described comprising a hook constructed of a single piece of material bent to form an eye, said hook being composed of sides having slots to form similar engaging portions or hooks, a casing or housing consisting of an extension of one of the sides and arranged between the same at the upper edges thereof, an arm extending from the bill of the hook of one of the sides and engaging the bill of the hook of the other side and located opposite the casing or housing to form an abutting face, and a spring-actuated bolt mounted in the casing or housing and abutting against the said arm, substantially as described.

3. A device of the class described comprising a hame-hook constructed of a single piece of material folded to form an eye and to provide two sides, each of the sides having a hook or engaging portion, one of the sides being provided with a tubular casing located opposite the bills of the hooks or engaging portions and spacing the said sides, and a spring-actuated bolt mounted in the tubular casing and adapted to close the mouth of the hame-hook, substantially as described.

4. A device of the class described comprising a hame-hook constructed of a single piece of material folded to form an eye, said hame-hook consisting of two sides, one of the sides being extended at the top and bottom, the upper extension being bent into tubular form to provide a casing and the lower extension forming an arm to space the sides at the bottom, and a spring-actuated bolt mounted in the casing, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

FRANKLIN P. WHITE.

Witnesses:

N. P. MANGUM,

JOHN H. GORE, Jr.