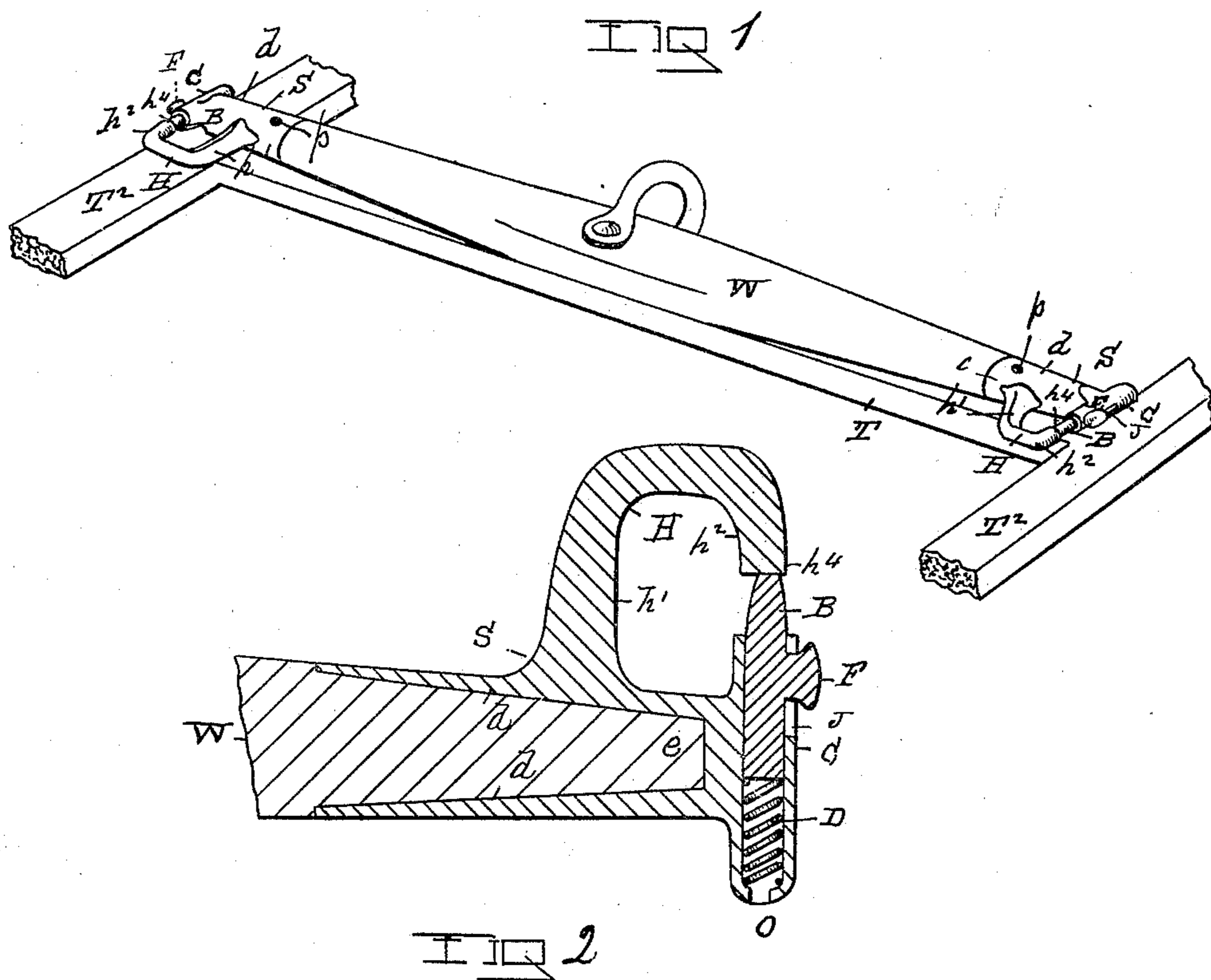


(No Model.)

W. F. WHITE.
WHIFFLETREE HOOK.

No. 467,566.

Patented Jan. 26, 1892.



WITNESSES

Charles S. Printmell

William A. Sweet

INVENTOR

William F. White

by W. E. Hagan atty

UNITED STATES PATENT OFFICE.

WILLIAM F. WHITE, OF TROY, NEW YORK.

WHIFFLETREE-HOOK.

SPECIFICATION forming part of Letters Patent No. 467,566, dated January 26, 1892.

Application filed May 12, 1891. Serial No. 392,461. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM F. WHITE, of the city of Troy, county of Rensselaer, and State of New York, have invented a new and
5 useful Improvement in Whiffletree-Snaps, of which the following is a specification.

My invention relates to an improvement in spring-snaps to adapt them for use upon whiffletrees for trace connection.

10 Accompanying this specification to form a part of it there is a sheet of drawings containing two figures illustrating my invention, with the same designation of parts by letter reference used in both of them.

15 In the illustrations, Figure 1 shows in perspective my improved socket-snap as applied to each end of a whiffletree. Fig. 2 is a section taken through a part of the whiffletree and also through the center of the snap-socket, snap-hook, snap-bolt spring, and finger-
20 piece, with the parts shown on a larger size than in Fig. 1.

These several parts of the apparatus thus illustrated are designated by letter reference, and
25 the function of the parts is described as follows:

The letter W designates the whiffletree and with the snap shown as attached at each end thereof at Fig. 1.

30 The letters T' designate the thills and cross-head, and T² parts of the thills.

The snap S is made with a socket *d* for receiving the end *e* of the whiffletree, and the letter H designates the snap-hook, the shank
35 *h'* of which projects from the front side of the socket at about right angles to the socket-center, and this hook end *h*² curves inwardly toward the outer end of the socket.

The letter C designates a cylinder or tube-
40 form inclosure which is cast integrally with the socket at right angles to its longitudinal center. The rear end of this cylinder or tube is made with a vent-hole O for the exit-passage of dust or water.

45 The letter D designates a spring arranged within the cylinder C, and B a snap-bolt ar-

ranged within said cylinder, with the rear end of the bolt bearing upon the spring, and is by the latter forced to project through the front
end of the cylinder or tube to engage with 50 the end of the hook at *h*⁴.

The letter J designates a slot made in the side of the cylinder or tube C, and F a finger-
piece projected through said slot, by which the snap-bolt B is drawn back against the
55 force of the spring for connecting a trace with the hook H.

The hook, its socket, and the tube-form cylinder part of the snap are all cast in one piece, and the socket is secured onto the ends of the
60 whiffletree by means of a bolt or pin shown at *p* in Fig. 1. As thus made and arranged, the snap-hook is by its peculiar form and means of connection well adapted to connect with the whiffletree, and it furnishes a convenient
65 means for attaching the traces that is perfectly secure and from which the traces may be easily disconnected when unharnessing.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, 70 is—

A snap-hook for whiffletrees, made with a socket for attachment to the ends of the latter, said socket having a hook projected from the front side of the socket with the hook-
75 shank at right angles thereto and having a slotted tube-form bolt-chamber at the socket end at right angles to the latter, a bolt within said chamber operated by means of a spring to engage at its outer end with the intumed
80 end of said hook, and a finger-piece on the bolt projecting through the slot in the bolt-chamber, substantially as and for the purposes set forth.

Signed at Troy, New York, this 11th day of 85 March, 1891, and in the presence of the two witnesses whose names are hereto written.

WILLIAM F. WHITE.

Witnesses:

CHARLES S. BRINTNALL,
W. E. HOGAN.