

No. 828,578.

PATENTED AUG. 14, 1906.

S. SHISLER.
TRACE.

APPLICATION FILED SEPT. 6, 1904.

Fig. 1.

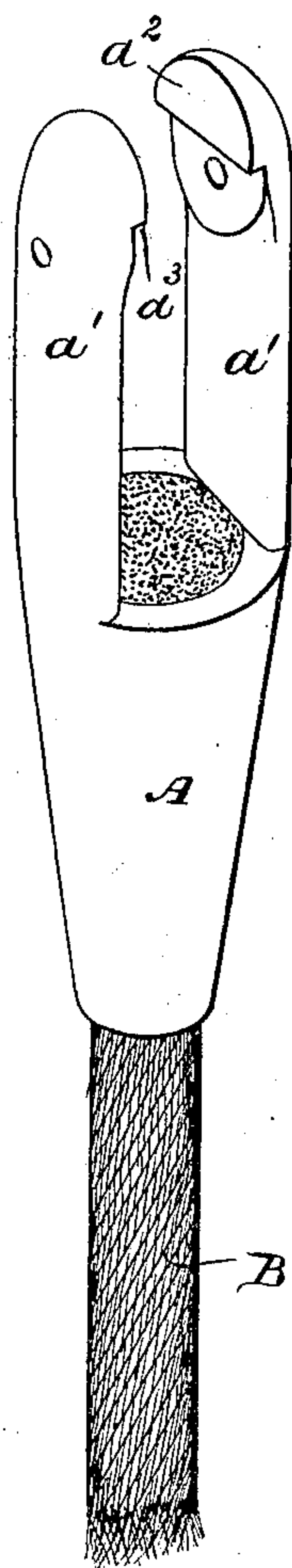


Fig. 2.

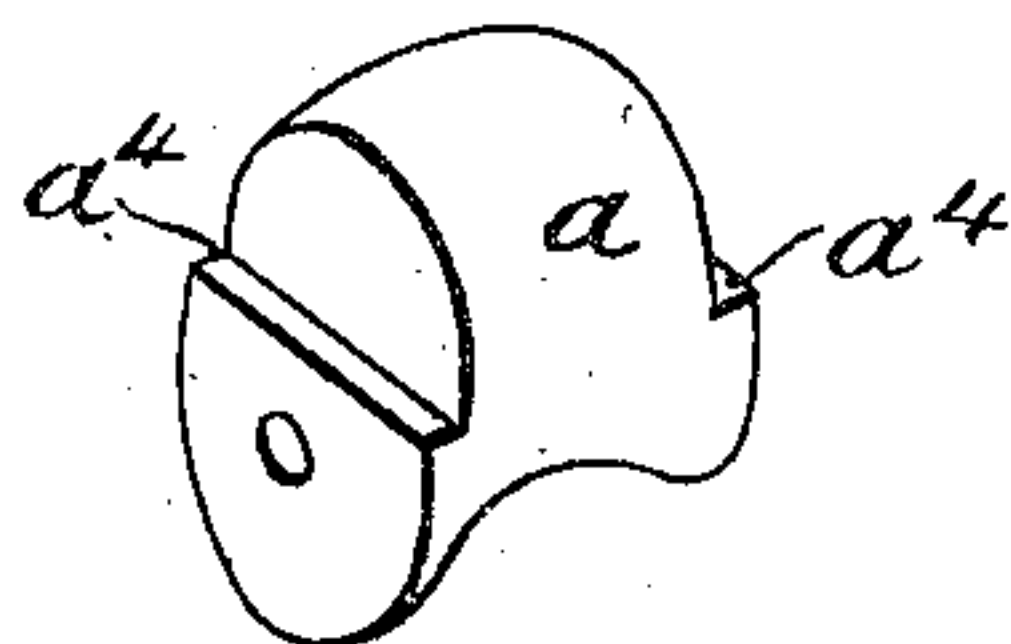
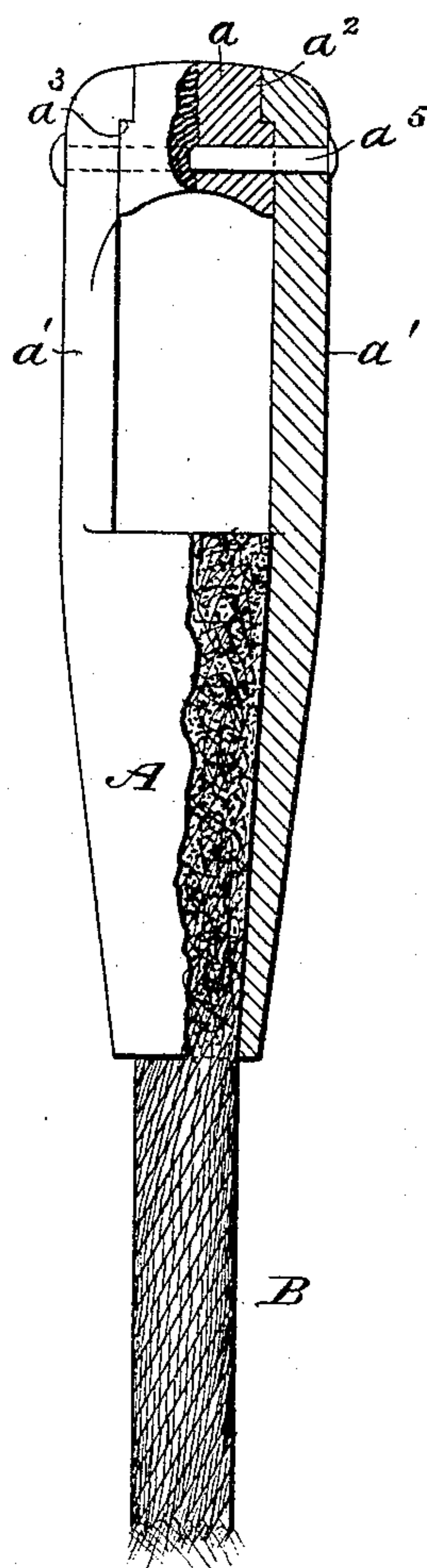


Fig. 3.



WITNESSES:

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UNITED STATES PATENT OFFICE.

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TRACE.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, SHERMAN SHISLER, a citizen of the United States, and a resident of Cleveland, county of Cuyahoga, State of Ohio, have invented a new and useful Improvement in Traces, of which the following is a specification, the principle of the invention being herein explained and the best mode in which I have contemplated applying that principle, so as to distinguish it from other inventions.

My invention relates to an improvement in traces, and particularly to the draft-eyes thereof; and it consists of means hereinafter fully described, and specifically set forth in the claims.

The annexed drawings and the following description set forth in detail certain means embodying the invention, such disclosed means, however, constituting but one of various mechanical forms in which the principle of the invention may be used.

In said annexed drawings, Figures 1 and 2 represent a perspective dismantled view of a draft-eye embodying my invention and a broken perspective view of a cable secured therein, and Fig. 3 represents a partial side elevation and partial vertical section of the device illustrated in Figs. 1 and 2.

As shown, my invention comprises a draft-eye A, provided with a separable portion *a*. The draft-eye is adapted to receive the end portion of a suitable cable, such as the steel cable B shown. Projecting from the body of the draft-eye are two arms *a'* *a'*, each provided at its outer end with a lateral inwardly-extending flange *a*² *a*², thereby providing shoulders *a*³ *a*³. The separable portion *a* is the bearing portion of the draft-eye or outer end which is adapted to be secured to a chain or other connecting means engaging the whiffletree. As clearly shown in Fig. 3, this separable portion *a* is of a width equal to the distance between the parts of arms *a'* *a'* and is concave on its inner face, whereby it is seen that substantially all the wear is confined to such portion. Such separable portion *a* is adapted to be inserted between the flanges *a*² *a*² of the arms *a'* *a'* and is provided with shoulders *a*⁴ *a*⁴ complementary to the shoulders *a*³ *a*³, whereby the portion *a* will not be displaced by the pull of the trace upon the whiffletree. A pin *a*⁵ is provided for fur-

ther securely fastening the portion *a* between the arms *a'* *a'*.

By the construction of a draft-eye as described the separable portions *a* can be readily replaced by new ones when they become worn, and thus effect considerable economy by the saving of the balance of the draft-eye, and, further, save time and labor by obviating the necessity of removing the cable from the draft-eye or of cutting the chain to which the draft-eye is secured whenever the bearing-surface of the eye becomes worn and is no longer serviceable.

Other modes of applying the principle of my invention may be employed instead of the one explained, change being made as regards the means herein disclosed, provided the means stated by any one of the following claims or the equivalent of such stated means be employed.

By providing the abrupt portions in the eyes formed by shoulder *a*³ and the corresponding shoulders *a*⁴ in the removable piece *a* the entire strain to which the latter is subjected is transferred to the arms *a'* *a'* without spreading or tending to spread them apart and breaking them off. The construction, therefore, does not impart any portion of the strain in the eye when in use to the rivet *a*⁵, so that the latter may be made comparatively light and of soft iron.

I therefore particularly point out and distinctly claim as my invention—

1. A draft-eye provided with two similar lateral arms each provided with an abrupt shoulder intermediate of its extremities; a separate portion fitting between said arms and formed with abrupt shoulders corresponding with the shoulder of said arms and engaging therewith, the inner portion of said separable portion being of a width equal to the distance between that part of said arms immediately adjacent thereto and out of contact therewith, whereby said portion may receive substantially all of the wear; and means for securing said portion.

2. A draft-eye for a trace comprising a tubular member adapted to receive and hold the end of such trace and provided with two similar parallel arms, each having a shoulder on its inner face, a separable member adapted to fit between said arms and having shoulders complementary to the shoulders there-

on, such member being adapted to form the bearing-surface of the eye, and means for securing said separable member and said arms together.

- 5 3. A draft-eye for a cable-trace comprising a tubular member adapted to receive and hold the end of such trace and provided with two similar parallel arms, each having a transversely-disposed shoulder on its inner
10 face and near its outer end, a separable member fitting between said arms and having shoulders complementary to the shoulders

thereon, the inner portion of said separable member being concave and of a width equal to the distance between that part of said 15 arms immediately adjacent thereto; and a pin passing through said separable member and the ends of said arms for securing the same together.

Signed by me this 29th day of August, 1904. 20
SHERMAN SHISLER.

Attest:

A. E. MERKEL,
E. M. NORLING.