

No. 720,914.

PATENTED FEB. 17, 1903.

W. M. HARTY.
SEPARABLE BAND FOR LEAF SPRINGS.

APPLICATION FILED MAR. 20, 1902.

NO MODEL.

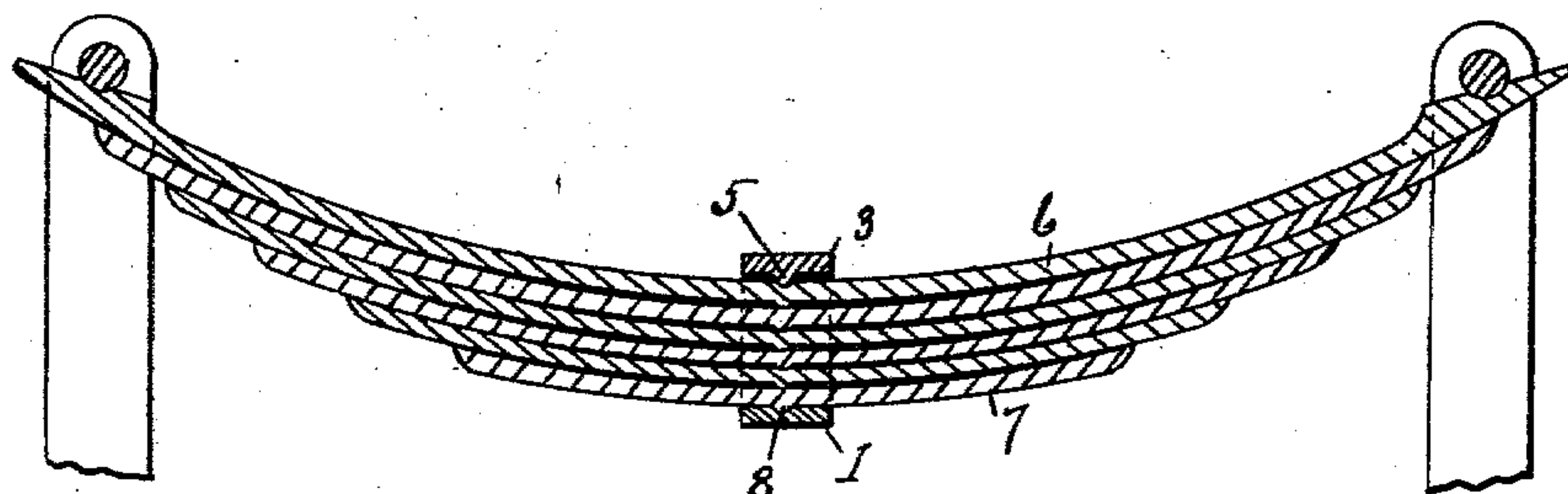


Fig. 1.

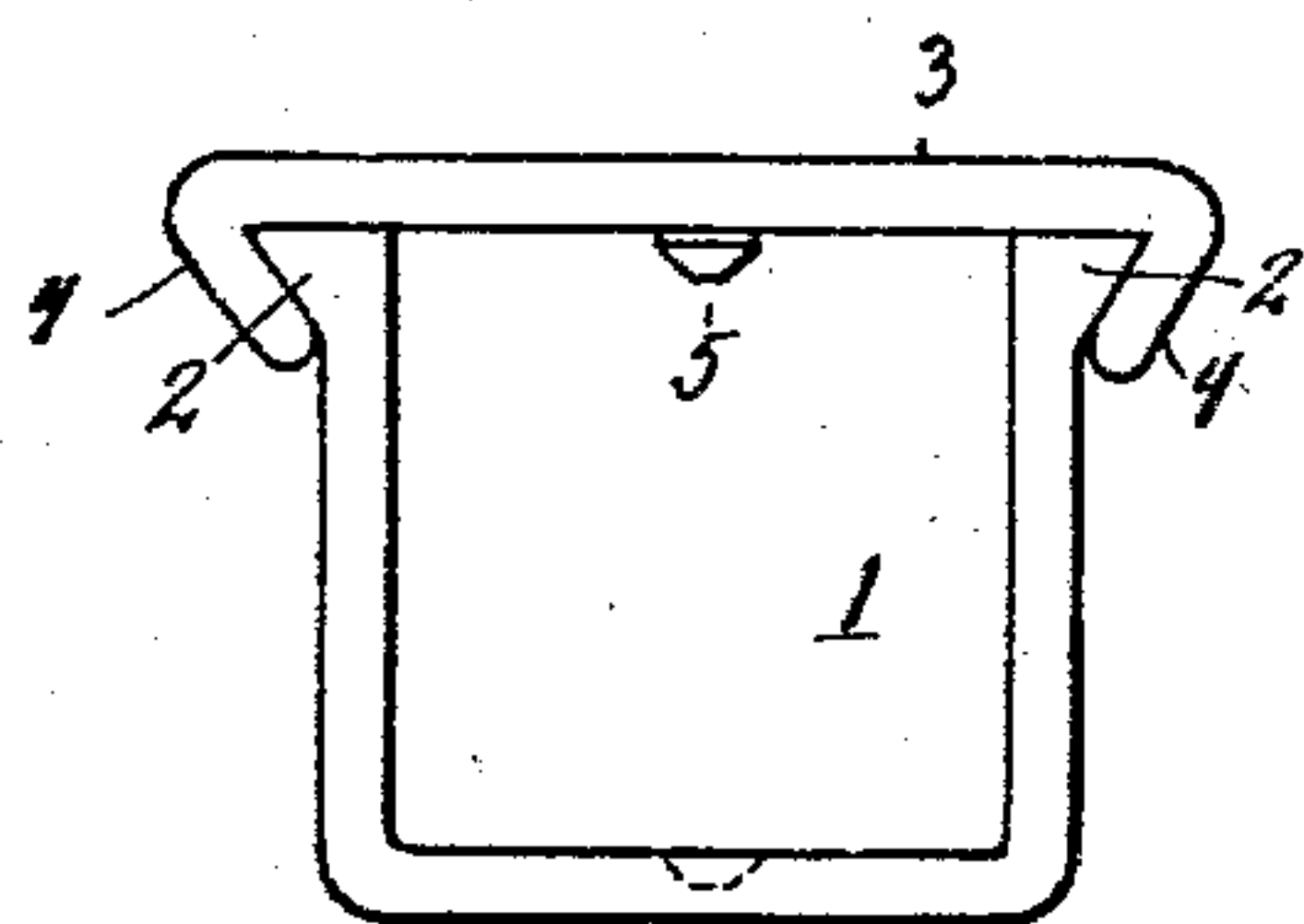


Fig. 2.

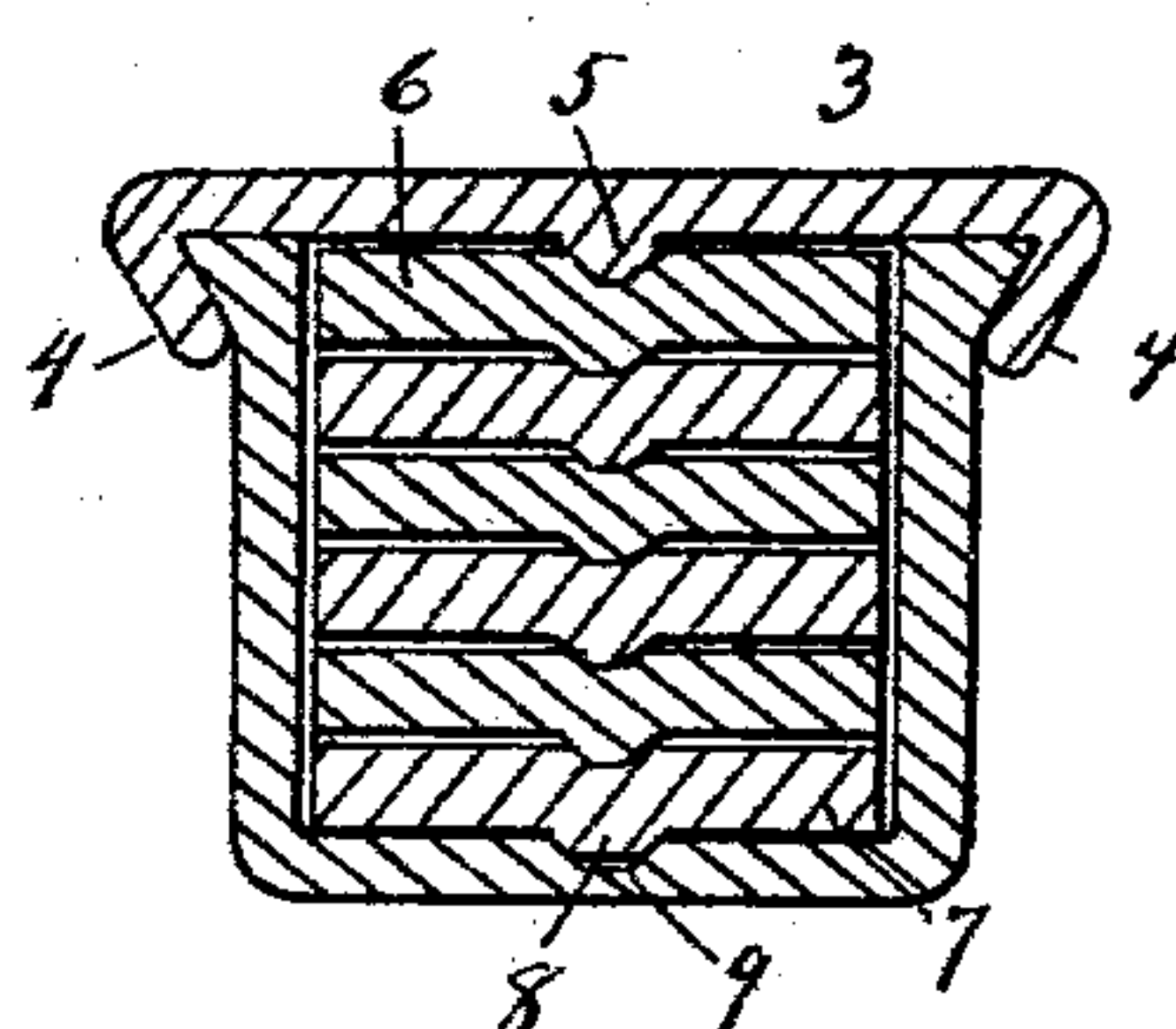


Fig. 3.

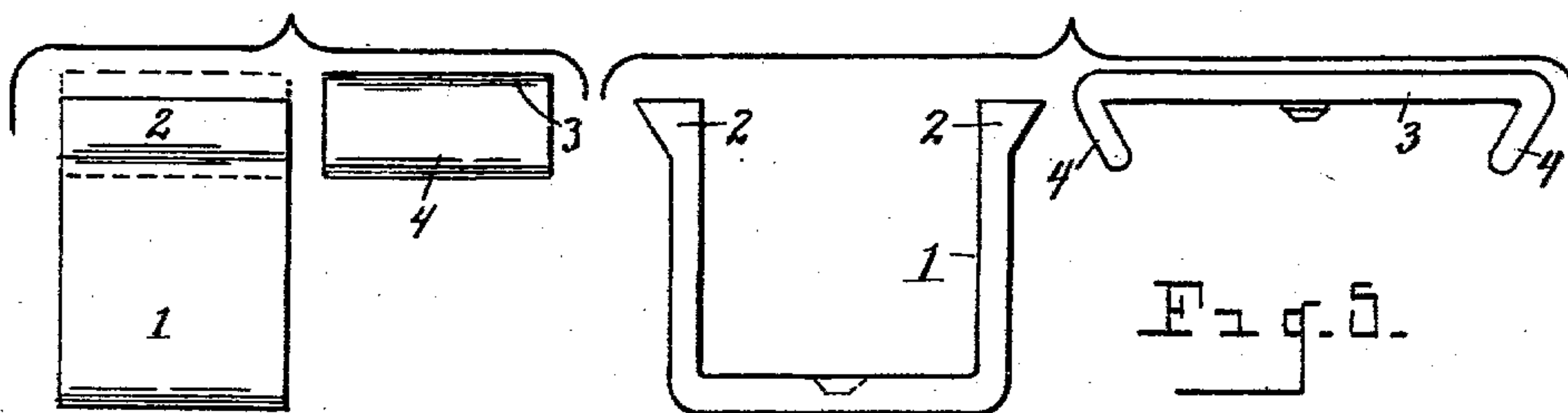


Fig. 4.

WITNESSES.

O. B. Ramsey.
C. E. Davis.

INVENTOR.

William M. Harty.
By R. E. Wheeler & Co.

Attorneys

UNITED STATES PATENT OFFICE.

WILLIAM M. HARTY, OF DETROIT, MICHIGAN, ASSIGNOR OF ONE-HALF TO
JAMES P. DOANE AND FRANK B. HART, OF DETROIT, MICHIGAN.

SEPARABLE BAND FOR LEAF-SPRINGS.

SPECIFICATION forming part of Letters Patent No. 720,914, dated February 17, 1903.

Application filed March 20, 1902. Serial No. 99,064. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM M. HARTY, a citizen of the United States, residing at Detroit, in the county of Wayne, State of Michigan, have invented certain new and useful Improvements in Separable Bands for Leaf-Springs; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

15 This invention relates to separable bands for leaf-springs; and it consists in the construction and arrangement of parts hereinafter fully set forth, and pointed out particularly in the claims.

20 The object of the invention is to provide a band for leaf-springs in which the arrangement is such as to bind the leaves of the spring firmly together at the center and at the same time allow said band to be readily mounted upon the spring and quickly and easily removed when it is desired to separate the leaves of the spring for repair or other purposes.

30 The above object is attained by the structure illustrated in the accompanying drawings, in which—

Figure 1 is a longitudinal sectional view through a spring provided with my improved band. Fig. 2 is an edge elevation of the band removed from the spring. Fig. 3 is a transverse section through the band and spring. Fig. 4 is a side elevation of the band and cap separated. Fig. 5 is a similar view in edge elevation.

40 In the art of manufacturing springs for heavy vehicles the leaves of the spring at their center are usually embraced by a strong metal band, which is usually shrunk onto the spring or forced thereon by hydraulic pressure. A band of this character is difficult to remove, owing to the fact that it must be cut in order to allow the leaves to be separated, entailing considerable labor and expense and often requiring an entirely new band. By

means of my improved separable band these 50 objections and difficulties are overcome.

Referring to the characters of reference, 1 designates the body of the band, which describes a trilateral figure, preferably rectangular and adapted to embrace the leaves of the spring. The free ends of the band are provided upon their outer face with projecting shoulders 2, which may be square or beveled, as shown, and which cross the face of the band transversely. The cap or complementary portion of the band comprises a plate or section 3, having its end portions bent downwardly and inwardly, as at 4, so as to embrace the shoulders 2 upon the ends of the band proper. The cap is put into place by sliding it edge-wise into position, with its depending ends 4 engaging said shoulders. On the under face of the cap 3 is a nib 5, which is adapted to engage in a recess in the face of the upper leaf 6 of the spring, while the lower leaf 7 of the spring is provided with a depending nib 8, that engages in a recess 9 in the inner face of the side of the spring opposite the cap. The intervening leaves of the spring are secured together and to the upper and lower leaves by interlocking nibs and recesses, as shown, and which is common in the art, the purpose of which is to prevent longitudinal displacement of the leaves.

In applying this band to a spring the leaves of the spring are first compressed by any suitable clamp, when the major portion of the band is placed upon the spring, so as to embrace the bottom and sides, and the cap of the spring is slipped into position, so as to cross the top of the spring and engage with its ends the shoulders at the terminals of the body of the band. The clamp upon the spring is then removed, when the expansion of the leaves will cause the nib 5 upon the cap to enter the recess in the upper leaf and will force the nib 8 upon the face of the lower leaf into the recess in the lower side of the band, thereby locking the band in position upon the spring, so as to firmly embrace the leaves thereof and securely bind them together.

Should it be necessary to remove the band

for the purpose of repair, the leaves in the spring are compressed sufficiently to free the cap 3, which may then be slid from the engaging shoulders of the opposite sides of the band and removed, allowing the band to be readily withdrawn from the spring without injury thereto in any respect, so that it may be replaced upon the spring when required.

Having thus fully set forth my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A separable band for leaf-springs comprising a trilateral member adapted to embrace three sides of the spring, each terminal of said member having a beveled shoulder crossing the face thereof, and a complementary member adapted to unite the ends of the trilateral member, said complementary member having downwardly and inwardly bent

extremities adapted to engage the shoulders on the trilateral member to detachably lock said parts together. 20

2. A band for leaf-springs comprising a trilateral member adapted to embrace three sides of the spring and having projecting shoulders at its terminals, a cap member adapted to cross between the terminals of the trilateral member having depending parts at its ends adapted to slide into engagement with said shoulders to lock the members of the band detachably together. 25 30

In testimony whereof I sign this specification in the presence of two witnesses.

WILLIAM M. HARTY.

Witnesses:

J. P. DOANE,

E. S. WHEELER.