

(No Model.)

D. M. SINCLAIR.

TIE FOR ENDS OF CANE STRIPS FOR CHAIR SEATS.

No. 516,711.

Patented Mar. 20, 1894.

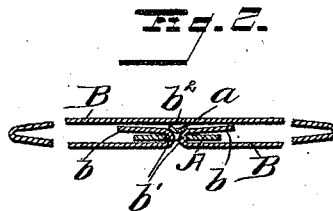
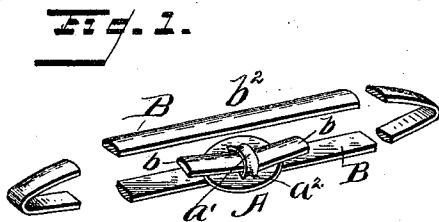


Fig. 3.

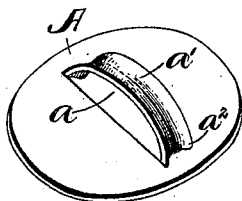
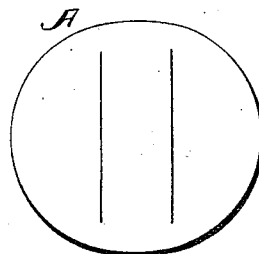
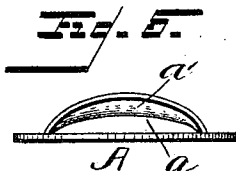


Fig. 4.



Fig. 5.



WITNESSES:

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UNITED STATES PATENT OFFICE.

DAVID M. SINCLAIR, OF MOTTVILLE, NEW YORK.

TIE FOR ENDS OF CANE STRIPS FOR CHAIR-SEATS.

SPECIFICATION forming part of Letters Patent No. 516,711, dated March 20, 1894.

Application filed May 15, 1893. Serial No. 474,236. (No model.)

To all whom it may concern:

Be it known that I, DAVID M. SINCLAIR, a citizen of the United States, residing at Mottville, in the county of Onondaga and State of New York, have invented a new and useful Tie for the Ends of Reed, Cane, or the Like in Chair-Seats, &c., of which the following is a specification.

This invention relates to that class of metal ties which are employed for splicing or binding the ends of cane strips or the like, in the construction of chair seats or analogous manufactures.

The object of my invention is to provide a simple and improved tie of this character, which will possess advantages in point of inexpensiveness, extreme simplicity, convenience, durability, effectiveness, and general efficiency, and which will be perfectly adapted for securely splicing or binding the ends of cane or reed strips, pith, wood splints, or the like, in the construction of chair seats and in analogous manufactures where strips of the same or a like nature are employed.

In the drawings:—Figure 1 is a perspective view, showing my invention in position. Fig. 2 is a longitudinal sectional view of the same. Fig. 3 is a detail perspective view of the tie. Fig. 4 is a detail longitudinal sectional view of the tie. Fig. 5 is a detail end view of the tie. Fig. 6 is a plan view, showing the plate provided with slits for the formation of the openings and the rib dividing the same.

Corresponding parts in all the figures are denoted by the same letters of reference.

Referring to the drawings, A designates the tie, which is formed of a metal plate preferably of elliptical or circular outline. The plate A is provided with two eyes or openings, a, a , divided by a transverse rib or bridge, a' . The openings a, a and rib a' are preferably formed by cutting parallel slits in the plate and then raising the portion between said slits to form the rib and the openings at each side the same. This method of forming the rib and openings is illustrated in Fig. 6. In this construction, the eyes or openings are arch-shaped, as clearly shown in Fig. 5, and the side edges of the dividing rib a' are flared upwardly and outwardly, as shown at a^2 (see

Fig. 4), by which relative construction and arrangement the insertion of the end of the cane or other strip is facilitated and the opening more perfectly conforms to the convex shape which is usual in strips of this class. The transverse rib is thus of a curved or convex contour, the eyes or openings being of a corresponding curved or convex shape, and the flared side edges of the rib form a corresponding central depression across the back of the rib, in the preferred specific construction just described.

B designates a strip of cane or other material, the ends of which, b, b , in the operation of connecting them by my improved tie, are passed upwardly through the eyes or openings a, a and are then turned outwardly over the top of the plate. The bends, as shown at b' , thus formed in the ends of the strip B are accommodated in the space under the rib a' , and by reason of the general construction and arrangement a compact, flat and secure splice is effected. It will be noted that, in this improved construction and arrangement, the projecting ends b, b of the strip B come under the body, b^2 , of the strip and are thus housed or inclosed between the main and end portion of the strip.

The operation and advantages of my invention will be readily understood by those skilled in the art to which it appertains.

My improved construction and arrangement presents a very compact, flat and secure splice, which can be formed with great facility and convenience, which will effectively bind the secured ends together, and in which the tie plate itself is of extremely simple and inexpensive construction.

I do not wish to be understood as limiting myself to the precise details of construction and arrangement as herein shown and specified, as manifest variations and modifications in the detail construction or form may be made without departing from the spirit and scope of my invention, and I therefore reserve the right to all such modifications as properly fall within the spirit and scope of the appended claims.

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

1. An improved tie for the ends of reed, cane, &c., comprising a metal plate having eyes or openings, *a a*, divided by a curved or convex rib or bridge, *a'*, having its side edges flared, substantially as set forth.
- 5 2. The herein described improved tie for the ends of reed, cane, &c., consisting of a metal plate having arch-shaped eyes or openings, *a a*, divided by the transverse curved or convex raised rib, *a'*, having the flaring side edges forming a central depression across the back of the rib, substantially as set forth.

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

DAVID M. SINCLAIR.

Witnesses:

D. H. DELANO,
F. D. HOYT.