

(No Model.)

N. NILSSON.  
STRAP.

No. 494,019.

Patented Mar. 21, 1893.

FIG 1

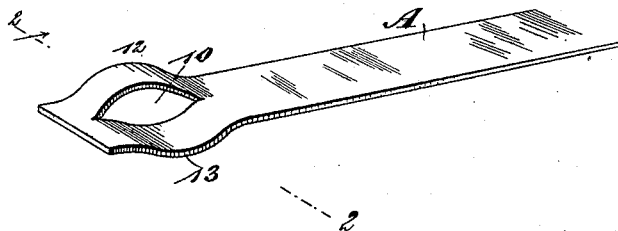


FIG 2

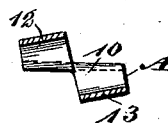
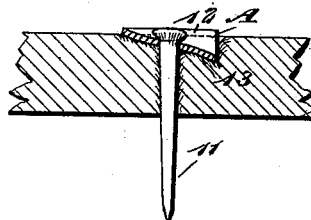


FIG 3



WITNESSES:

H. Walker  
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INVENTOR

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# UNITED STATES PATENT OFFICE.

NILS. NILSSON, OF BROOKLYN, NEW YORK.

## STRAP.

SPECIFICATION forming part of Letters Patent No. 494,019, dated March 21, 1893.

Application filed April 11, 1892. Serial No. 428,641. (No model.)

*To all whom it may concern:*

Be it known that I, NILS. NILSSON, of Brooklyn, in the county of Kings and State of New York, have invented a new and Improved Metallic Box-Strapping, of which the following is a full, clear, and exact description.

My invention relates to metallic box strap-pings, and has for its object to provide metal bands or straps adapted to be used upon packing cases and boxes of all kinds, for strengthening said cases and boxes and binding the parts together, the bands or straps being also capable of use as corner irons simply, when such are necessary.

Another object of the invention is to produce a band or strap exceedingly simple, economic and durable and capable of being readily applied, and to provide the band or strap with openings for the reception of nails and like fastening devices, the openings being so formed that the strap upon being turned edgewise to a greater or less extent will receive either large or small nails in the openings.

It is also the object of the invention to so shape the metal around each opening receiving a nail, that when the nails are driven the openings will be closely closed around the shanks of the nails until their heads strike the walls of the openings, and the metal at the edges of the openings will be driven down into the material from which the box or casing is made, thereby effecting a secure attachment between the strap or band and the article it is to surround.

The invention consists in the novel construction and combination of these several parts, as will be hereinafter fully set forth and pointed out in the claim.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar figures of reference indicate corresponding parts in all the views.

Figure 1 is a perspective view of a portion of a strap or band constructed in accordance with my invention. Fig. 2 is a transverse section through the strap or band and through an opening formed therein, the section being taken practically on the line 2—2 of Fig. 1; and Fig. 3 is a section taken also practically on the line 2—2 of Fig. 1, but in Fig. 3 the strap

is shown in connection with a board and as being secured to the latter by means of a nail.

The strap or band A, may be made of any desired length and from any suitable material. The material preferably used, however, is a soft iron or the equivalent thereof, in order that the band or strap may be bent readily to conform to the exterior contour of the article to which it is to be applied. At predetermined intervals in the length of the strap a series of openings 10, is produced, and each of these openings is adapted to receive a nail 11, or other device to be employed for securing the strap or band in position upon an object. The formation of the openings 10 is somewhat peculiar, and in their formation lies the essential feature of the invention.

It is the aim of this invention to produce the openings in such a manner that they will receive either large or small nails, and whereby when the openings are made the straps will not be weakened to any perceptible or appreciable extent.

The openings are produced in the straps longitudinally thereof, but in forming the openings the metal at one edge is bent upward forming an arch 12, and the metal at the opposite side is bent downward, or in the opposite direction, forming an inverted arch 13. Thus the openings appear diagonally upon the strap, and it is evident that if the strap is placed flat upon an object a small nail can be readily introduced in an opening in the strap and be driven into the body upon which the strap is placed; and, further, that by tilting the strap upon its edge to a greater or a less degree the openings will receive nails of different sizes. When carried fully upon its edge the largest size of nail employed for securing straps may be readily introduced within the openings.

Owing to the arched form of the strap at its openings, the arches extending in opposite directions, when a nail has been driven until the head thereof strikes the top arch this arch is crowded down, thereby closing the opening around the shank of the nail, and in further driving the nail the head of the latter will force the lower arch down into the object to which the strap is to be secured, virtually embedding it in the object, as shown in Fig. 3,

and thereby materially adding to the gripping or holding qualities of the strap.

It is evident that the strap may be used in short lengths for strengthening boxes or cases at their corners, if in practice it is found desirable; and it is obvious that when openings are made in a strap in the manner above described, a nail when driven through the opening will not tend to split or injure the strap, and further that the openings may be of any desired contour, as for instance, they may be made oval, as shown, or they may be circular, or may be made more or less square or polygonal.

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

As an improved article of manufacture a

solid box-strap or band provided with a series of longitudinal eyes produced therein, one side of the eyes being arched upward to extend above the plane of the upper surface of the band, the opposite side of the eyes being arched downward below the lower surface of the band, whereby the width of the eyes is practically at right angles with respect to the upper face of the band, and whereby also by turning the strap more or less upon its edge the eyes may be made to receive nails or fastening devices of different sizes, as more or less of their width will be brought to a horizontal position.

NILS. NILSSON.

Witnesses:

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E. M. CLARK.