

(No Model.)

W. MORRISON, Jr.

STRAP OR BAND FOR BOXES.

No. 298,999.

Patented May 20, 1884.

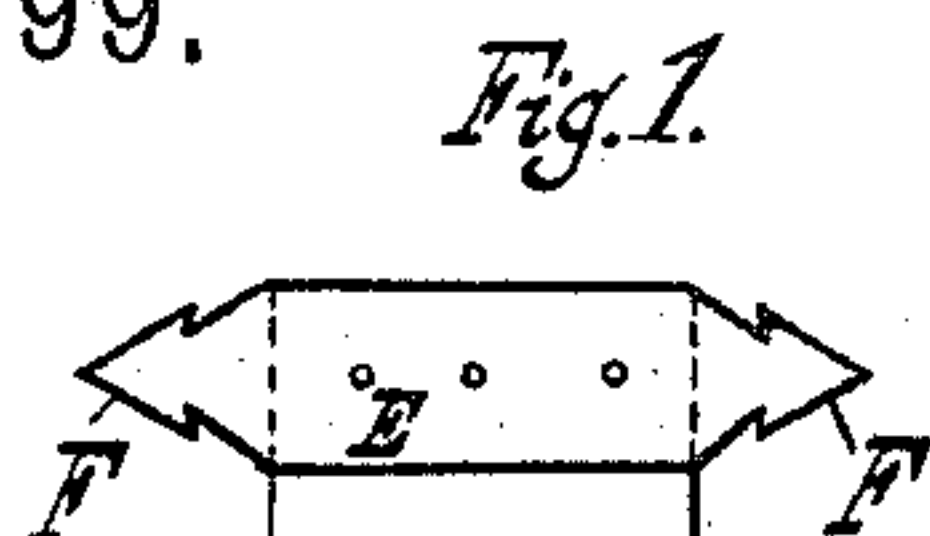


Fig. 4.

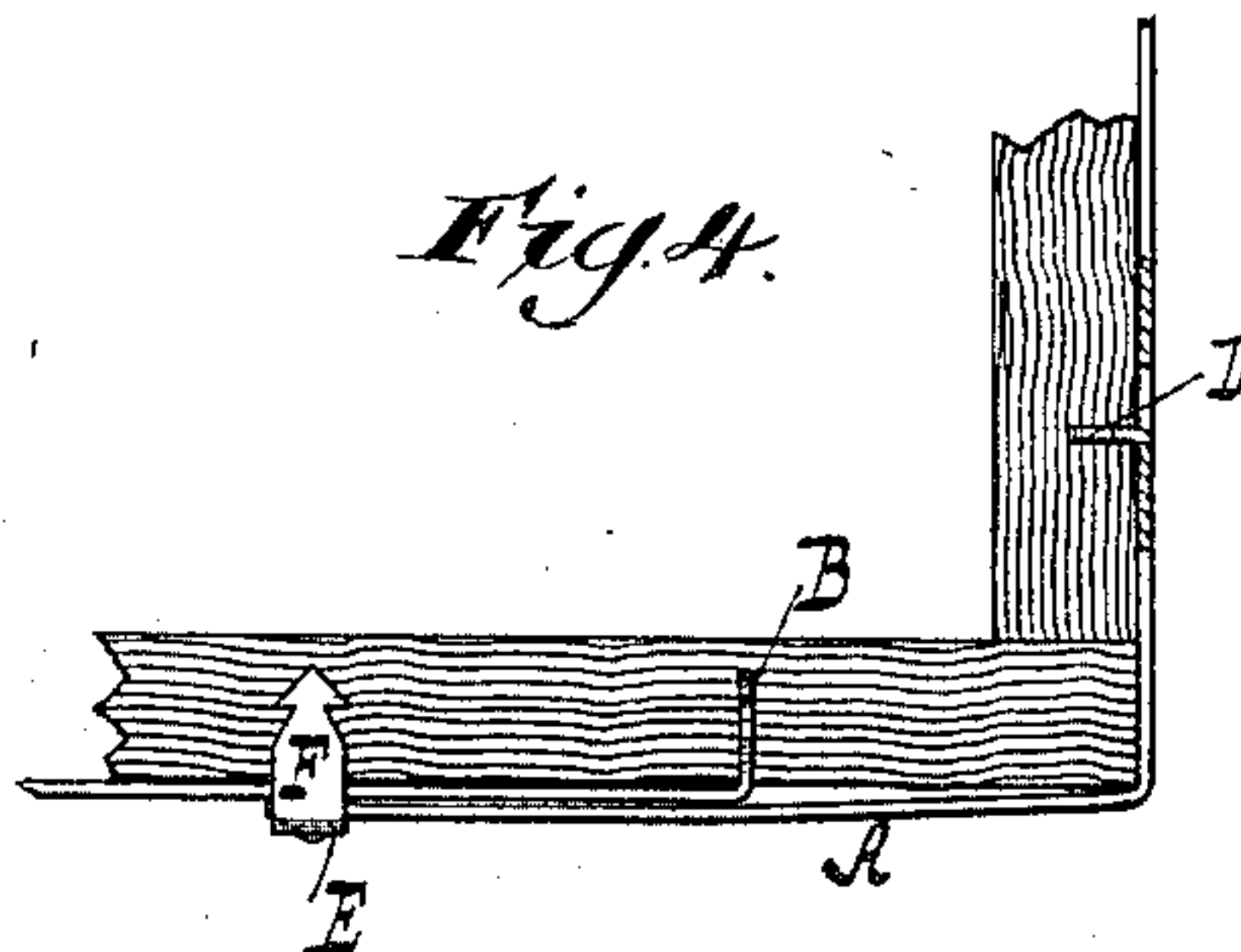


Fig. 3.

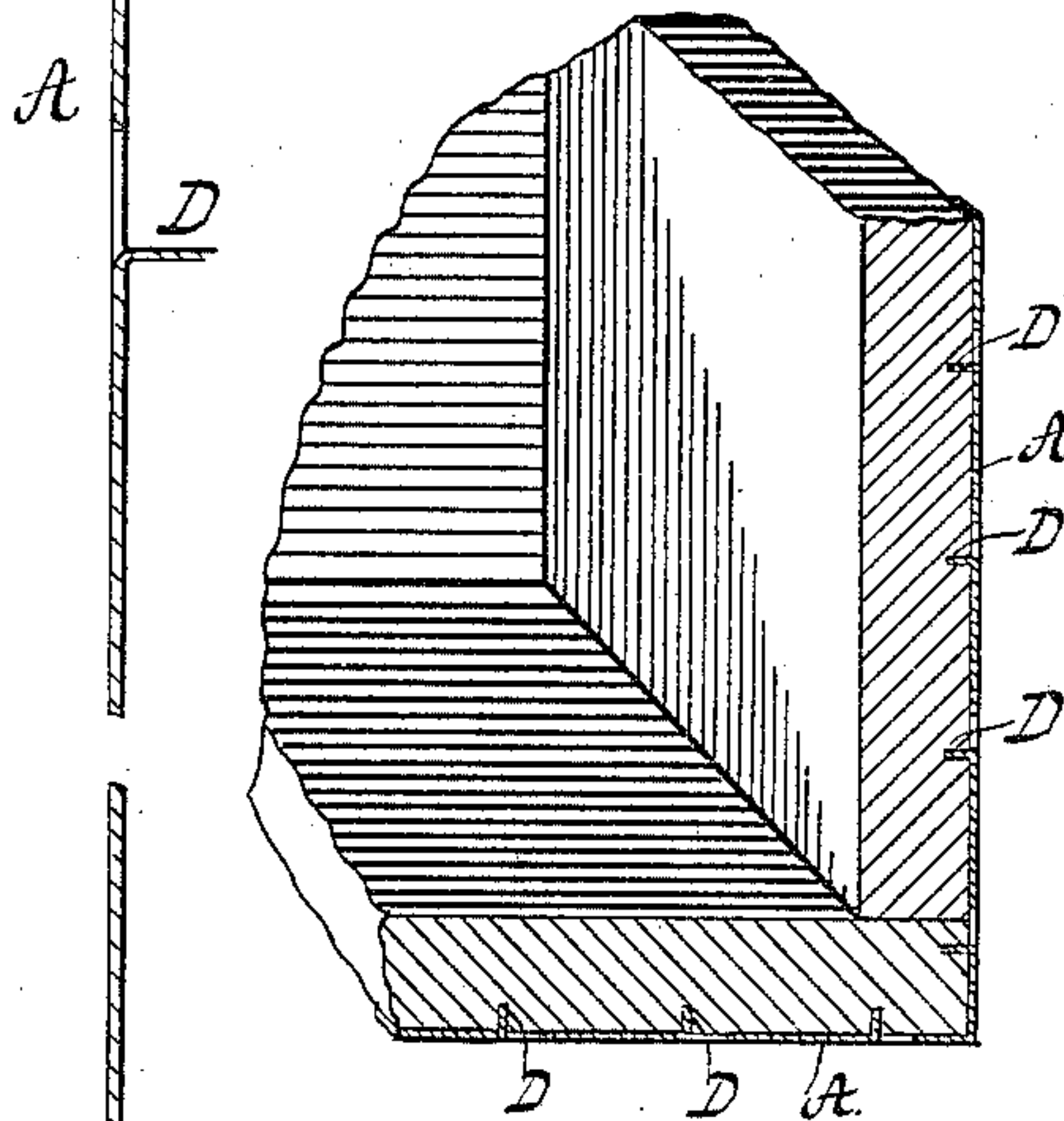
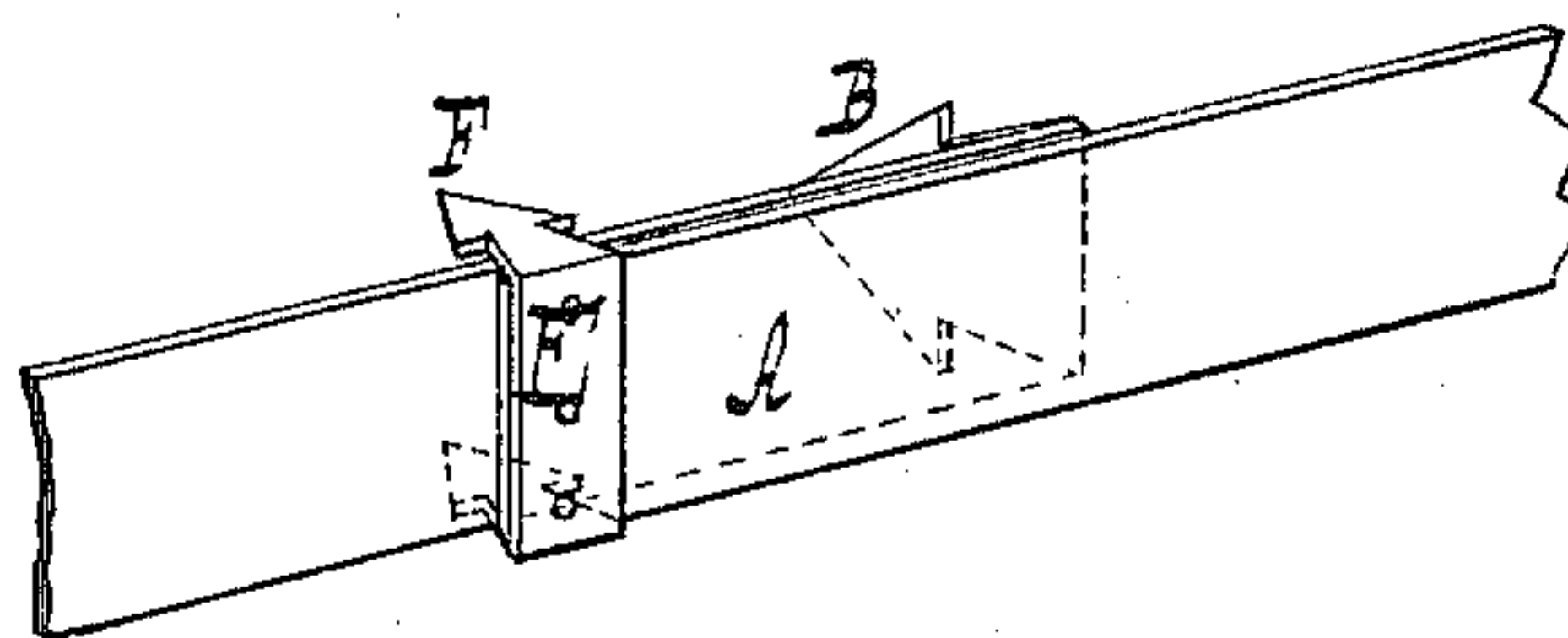


Fig. 5.



WITNESSES:

William Miller
Char. Kahler.

INVENTOR

William Morrison, Jr.

BY

Van Santvoord & Haupp

ATTORNEYS

UNITED STATES PATENT OFFICE.

WILLIAM MORRISON, JR., OF NEW YORK, N. Y.

STRAP OR BAND FOR BOXES.

SPECIFICATION forming part of Letters Patent No. 298,999, dated May 20, 1884.

Application filed March 20, 1884. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM MORRISON, Jr., a citizen of the United States, residing at New York, in the county and State of New York, have invented new and useful Improvements in Straps or Bands for Boxes and other Packages, of which the following is a specification.

This invention is illustrated in the accompanying drawings, in which Figure 1 represents my improved strap in plan view, the barbed fastening devices being shown punched or cut in the body of the strap, but not yet bent out to their working position. Fig. 2 is a central longitudinal section of the strap with its fastening devices bent out to their working position. Fig. 3 shows a portion of a box to which the strap is applied. Fig. 4 shows a portion of a box with the overlapping barbed ends of the strap secured thereto, and Fig. 5 is a detached broken perspective view showing the overlapping barbed ends of the strap.

Similar letters indicate corresponding parts.

My invention relates to straps or bands for securing and strengthening boxes and other packages. Such straps or bands are sometimes made of sheet metal, a narrow strip of which, of suitable length, is provided with nail-holes and applied around the box or package near its ends and nailed to the box. That mode of strapping boxes is objectionable, because if one has not a supply of nails of the proper size and character he cannot apply the strap, and because if the ends of the strap overlap the perforations made in the ends may not coincide. Furthermore, the nail-fastenings are liable to be sprung out by the rough usage to which boxes are subjected in transportation. Sometimes also wooden straps are used, made of saplings, which are applied when green or in a wet condition. These are objectionable because it is difficult to nail them around the box, and they are liable to be torn off in the handling the box receives in transportation.

My invention has for its object to provide a more secure method of securing packages or cases—such, for example, as wooden boxes—by means of straps or bands, and to provide a strap or band which is self-fastening—that is

to say, in which the necessary fastening devices form part of the strap or band itself.

In carrying out my invention I take a strap, A, of sheet metal of proper width, and by means of a punch or suitable tool cut or make one end of it barbed or arrow-shaped, as at B. I bend the end B until it forms about a right angle with the plane of the strap, so that when it is presented end foremost to the surface of the box or package it can be driven into the wood by striking with a hammer upon the bend of the strap at the angle C, where the barbed fastening B is turned down from the body of the strap. The barbs of the fastening enter the wood and secure the strap to the box. I punch or cut barbed or arrow-shaped fastenings D in the body of the strap or band at suitable distances apart—say, six inches, more or less—and bend them out at about a right angle with the strap, so that their pointed ends project from the strap in such positions that when the strap is gradually brought around the box and against its sides the pointed ends will one after the other come against the surface of the box, and can be one after the other driven into the wood and the strap secured to the box. The rear end of the strap is provided with a transverse piece, E, whose ends are punched out to form barbed fastenings F F. The piece E is fastened across the rear end of the strap by riveting or other suitable means, so that the barbed ends F F project beyond the edges of the strap. The barbed ends F F are bent down at about a right angle to the strap, so that their points can be properly presented to the surface of the box and be driven into it, so as to secure the rear end of the strap. This arrangement of the fastening-barbs F F at the rear end of the strap allows that end to overlap the front part of the strap which had been already fastened, so that if the strap is longer than actually necessary to reach once around the box the rear end can be readily fastened to the box, inasmuch as the barbed ends F F straddle and extend outside of the part of the strap which may have been already fastened.

When the box or package is to be opened, the strap is unfastened by prying up its fastenings, the length of the barbed fastenings not being so great as to prevent them from being

pried up with a suitable instrument inserted under the end of the strap.

In preparing my strap for use the barbed fastenings are punched and bent out at the same time to their proper positions for use.

What I claim as new, and desire to secure by Letters Patent, is—

1. A fastening-strap, A, for packages or cases, provided with a barbed end, B, and barbed tongues C, punched or struck out from the body of the strap, substantially as described.

2. The strap A, having its front end barbed, and having barbed tongues intermediate of its ends, as described, in combination with the transverse piece E, with barbs F F, secured to the rear end of the strap, substantially as described.

3. A fastening-strap for packages or cases, provided at its rear end with a fastening extending transversely to the strap, so that the barbs F F of the fastenings are outside of the edges of the strap when the rear end of the strap overlaps the front end, substantially as described.

In testimony whereof I have hereunto set my hand and seal in the presence of two subscribing witnesses.

WM. MORRISON, JR. [L. S.]

Witnesses:

J. VAN SANTVOORD,

W. C. HAUFF.