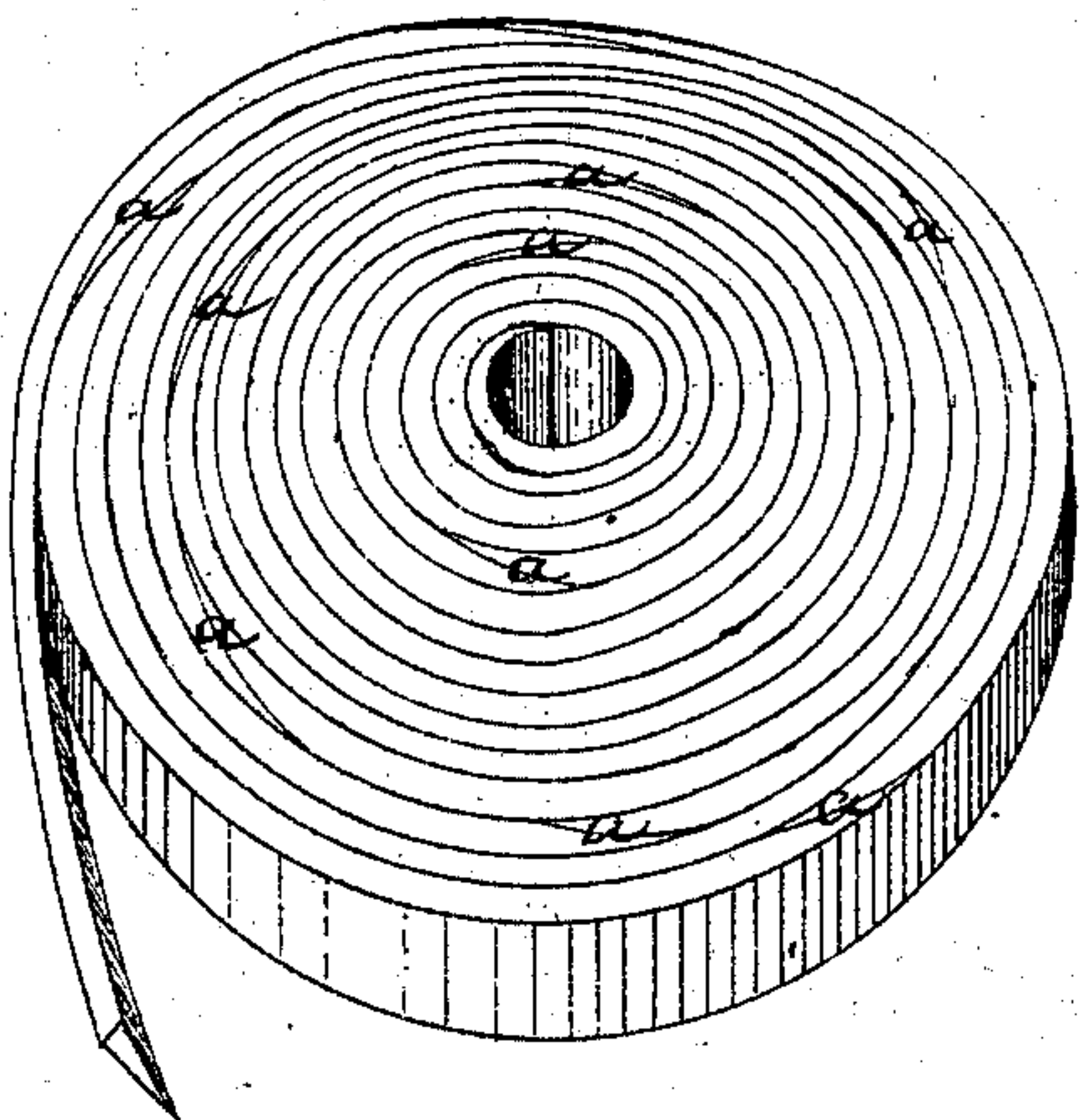


*H. F. Packard*  
*Welt or Rand Ribbon for Boots and Shoes.*

116744

PATENTED JUL 4 1871



*H. F. Packard*  
*by his Attys*  
*Crosby & Gould*

Witnessed.  
*J. B. Kipper*  
*L. H. Galtner*

# UNITED STATES PATENT OFFICE.

HENRY F. PACKARD, OF NORTH BRIDGEWATER, ASSIGNOR TO ARZA B. KEITH,  
OF BRAINTREE, MASSACHUSETTS.

## IMPROVEMENT IN WELTS AND RANDS FOR BOOTS AND SHOES.

Specification forming part of Letters Patent No. 116,744, dated July 4, 1871.

*To all whom it may concern:*

Be it known that I, HENRY F. PACKARD, of North Bridgewater, in the county of Plymouth and State of Massachusetts, have invented an Improvement in the Manufacture of Welts and Heel-Rands or Runners; and do hereby declare that the following, taken in connection with the drawing which accompanies and forms part of this specification, is a description of my invention sufficient to enable those skilled in the art to practice it.

In the manufacture of welts for boots and shoes and of heel-rands or runners, it is customary to cut up strips of leather into pieces, each long enough to form such a welt or runner, and to chamfer each strip to the requisite thinness at one or both edges. In forming the welts or runners from such strips the excess of material at the end of every strip is wasted, and for short welts or runners material is often wasted in shortening long ones. Owing to the high price of leather-stock this waste is of much account, and it becomes very desirable to economize it.

My invention relates to a method by which all the stock is utilized, such method consisting in piecing together the ends of different strips, both long and short, and forming therefrom a sort of ribbon of general uniformity in width, and properly chamfered, from which ribbon welts or runners may be cut to whatever length may be re-

quired. My invention consists in a new article of manufacture, the same being a continuous length of welt or runner-strip made up of separate pieces, whether long or short, joined end to end, so as to form a ribbon from which to cut welts or runners to the requisite length without reference to the points of union of the ribbon-forming pieces, and without any waste of material.

The drawing represents a ribbon embodying my invention, the strip being shown as wound in a coil, which is the preferable form to give to the ribbon, and from which to cut the welts or runners as wanted. From such a long strip or ribbon the material may be fed directly through a welt-guide into the welt-applying machine, or through a rand-guide to a rand-applying machine. To join the ends to form the long strip the lapping ends are scarfed, as seen at *a*, so that, when laid together and united by suitable cement, the strip at the joints is uniform in size and shape with the adjacent parts of the strip.

I claim—

As a new article of manufacture, a welt and rand-strip or ribbon formed of pieces united end to end, substantially as shown and described.

Executed January 17, 1871.

H. F. PACKARD.

Witnesses:

FRANCIS GOULD,  
S. B. KIDDER.