

P. Jewell, Jr.,

Belting,

Nº 66,848,

Patented July 16, 1867.

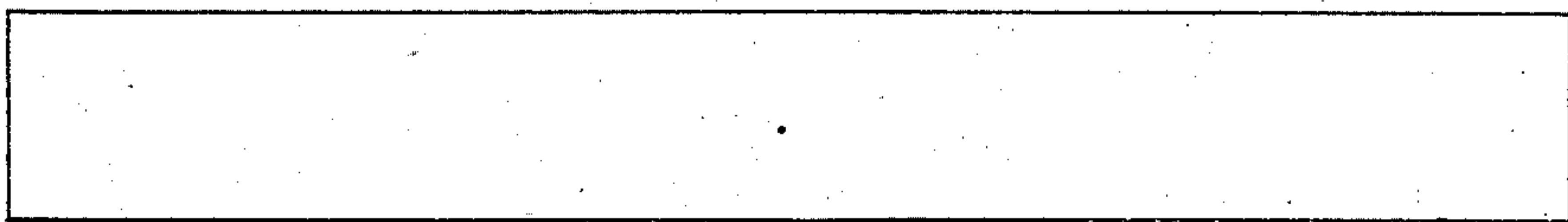


Fig. 1

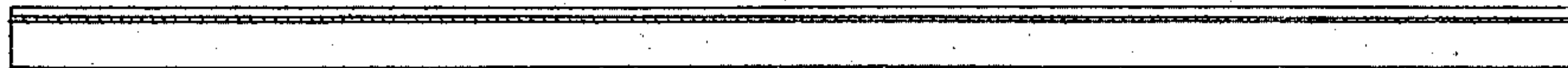


Fig. 2

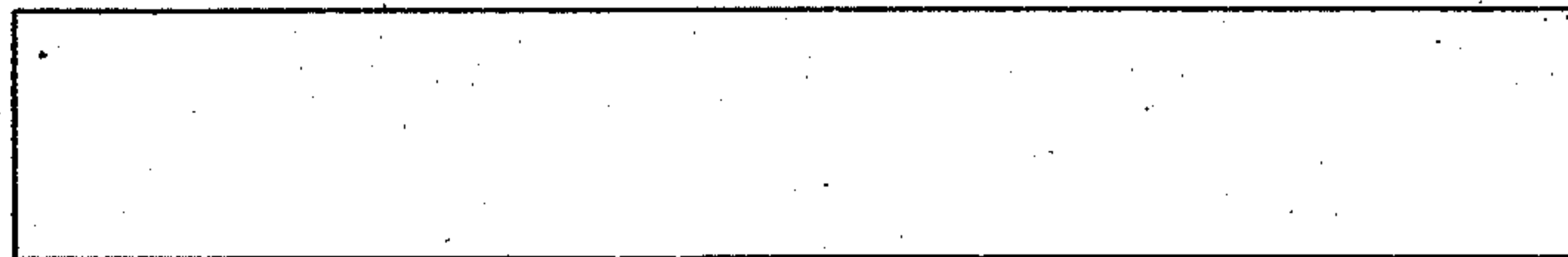
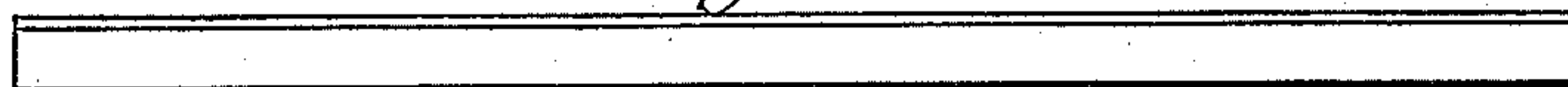


Fig. 3



Witnesses.
J. E. Coleman
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PLINY JEWELL, JR., OF HARTFORD, CONNECTICUT, ASSIGNOR TO PLINY JEWELL & SONS, OF SAME PLACE.

Letters Patent No. 66,848, dated July 16, 1867.

IMPROVED RUBBER-COATED RUBBER BELTING.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, PLINY JEWELL, Jr., of the city and county of Hartford, and State of Connecticut, have invented certain new and useful improvements in the manufacture of "Rubber-Coated Leather Belting;" and to enable others skilled to make and use the same, I will proceed to describe the same, referring to the drawings in which the same letters indicate like parts in each figure.

The nature of this invention consists in coating the surface or surfaces, (one or both,) with India rubber or other suitable gum or material susceptible of being vulcanized, or in coating said belting with India rubber or other gum or material and saturated fabric, while yet in a plastic condition, and, when desirable, overlapping the skived ends one upon the other in the common way, then clamping or firmly compressing the parts together by means of clamps or moulds, and subjecting them to a steady heat of about two hundred and thirty degrees for three or four hours, more or less, as may be found best; thus producing a belt of a more uniform elasticity, especially where thin, split, or poorer quality of leather is used, and thereby rendered less liable to be affected from damp or wet.

In the accompanying drawings are shown three different forms or ways in which this improvement is produced and used.

In Figure 1, *a* is a section of a leather belt having a coating of fabric and rubber, or other material equivalent thereto, upon one side thereof only.

In Figure 2, *a* is a section of a leather belt, having a coating of fabric and India rubber, or other equivalent material, compressed upon both sides thereof.

In Figure 3, *a* is a section of a leather belt, having a coating of India rubber, or other equivalent material, applied to one side thereof.

Either or all of these ways are designed to be applied to one side, two sides, or all sides of a leather belt, with or without coating the lap-joints.

The belting is first cut in strips of the required width, the ends of which are skived in the usual way for forming the lap-joint. Then those strips are subjected to the process of coating before or after the lap-joints have been formed. First, care must be had in preparing or cleansing the surface of the leather, particularly that part thereof where the lap-joints are formed, by washing with acid (oxalic or its equivalent) liquid; in order to secure a more perfect affinity or union of the gum material with the leather. Then when the leather is properly prepared and dried, a sheet of gum fabric or a sheet of gum alone, prepared in the usual way, (known to manufacturers of India-rubber goods,) is applied to the surface or surfaces of the leather belt made in one, two, or more thicknesses of leather, and around its edges, when desirable, and firmly compressed together by the use of proper clamps or moulds to secure a perfect unity of all parts thereof together, and to the leather; then subjected to a steady heat of about two hundred and thirty degrees, more or less, for three or four hours, as may be found to be most advantageous. The forming of the lap-joint is produced by overlapping the prepared ends, clamping, and subjecting the same to heat, as above described.

Thus I am enabled to produce a belt impervious to water wholly or upon one or both surfaces thereof, and at the same time adding greatly to the strength and uniformity of the belt, especially where light or poorer quality of leather is used. I believe I have thus shown the nature and construction of this invention, so as to enable others skilled to make the same therefrom.

What I claim is, as a new article of manufacture—

A gum-coated leather belt, substantially as and for the purpose described.

Witnesses:

J. E. COLEMAN,
JEREMY W. BLISS.

PLINY JEWELL, JR. [L. S.]