

No. 39,716.

PATENTED SEPT. 1, 1863.

J. CAMPBELL.
CONVEYER BELTING.

Fig. 3.

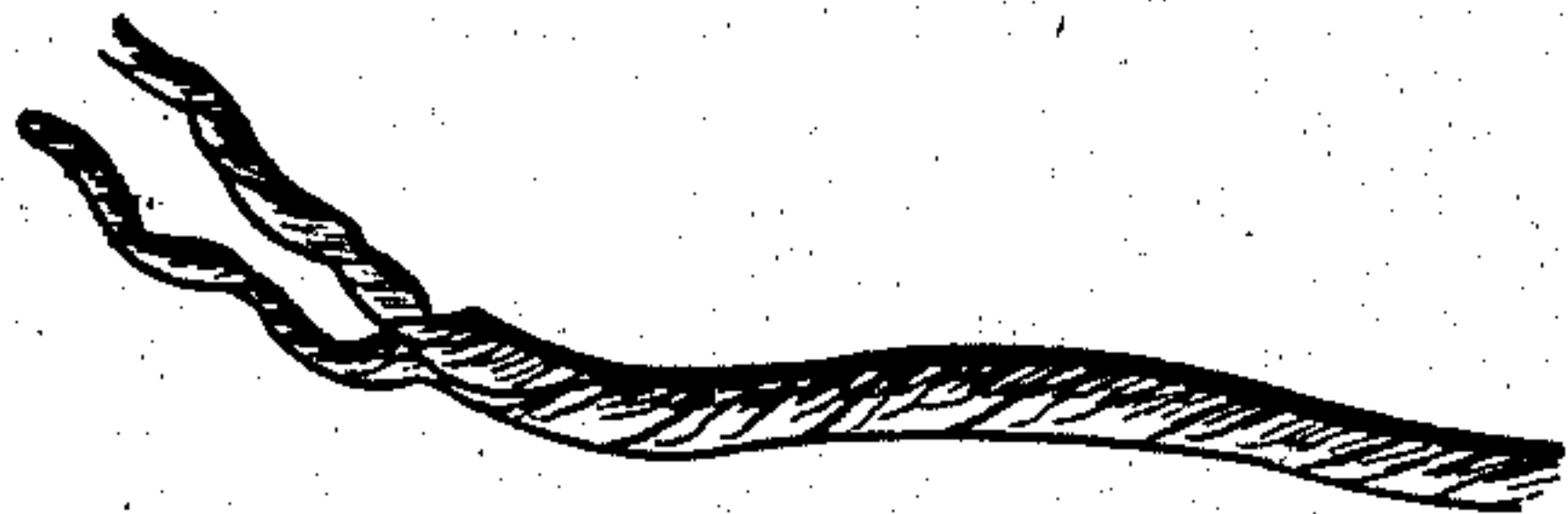
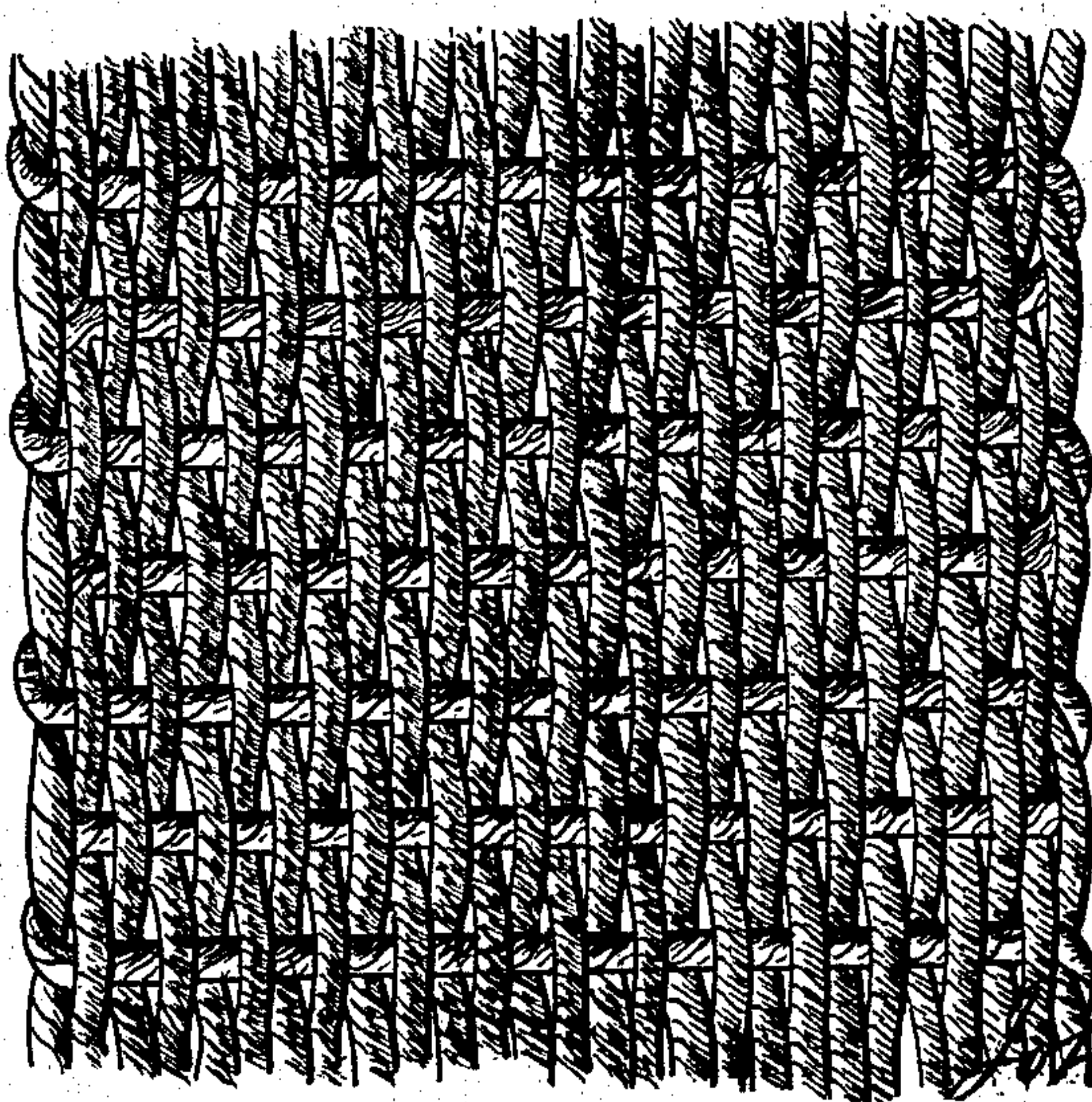


Fig. 2.



Fig. 1.



Witnesses
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JOHN CAMPBELL, OF ST. LOUIS, MISSOURI.

IMPROVEMENT IN CONVEYER-BELTING.

Specification forming part of Letters Patent No. 39,716, dated September 1, 1863.

To all whom it may concern:

Be it known that I, JOHN CAMPBELL, of the city and county of St. Louis, and State of Missouri, have invented a new and useful Improvement in Conveyer-Belting; and I do hereby declare that the following is a full and clear description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, and made to form a part of this specification.

The object of this invention is to produce, as a new article of manufacture, a fabric for conveyer-belting which may possess all the efficiency of leather or rubber, while at the same time it may be produced at much less expense; and the nature of my invention relates to the employment or use of conveyer-belting formed of hemp, as hereinafter set forth and represented, as a new article of manufacture.

In reference to the accompanying drawings, Figure 1 represents a section of my improved belting as prepared for use. Fig. 2 represents a strand of the warp, and Fig. 3 a strand of the filling of the said belting. The warp or longitudinal strands of the said belting will be of hemp, formed of single strands or parts, as A, slightly twisted to give them continuity and strength. The strands which form the filling of the belting, and also the longitudinal strands which assist or combine with the filling in forming the edges or selvage of the belting, will be made double or of two parts twisted together, as shown clearly in Fig. 3; by means of which the said edges of the belting will be stronger and more durable than the main body thereof, and thus adapted to

meet and withstand the friction and wear which, in operating a belt, is necessarily much greater at its edges than at any other part. The said belting may be formed in the ordinary manner of weaving fabrics composed of similar material. The buckets or cups necessary to be employed upon a conveyer-belt may be attached to the aforesaid belting by being riveted to metallic plates upon the other side of the same. In order to give to the said belting the requisite adhesiveness adapted to its employment as a conveyer-belt, it may be saturated with tar by being dipped therein, and then pressed in the usual manner.

Thorough practical experiments have fully proved the efficiency of the above-described hemp belting to be fully equal to the best quality of leather or rubber employed for a like purpose, and that its durability compares favorably with the same. While the cost of manufacturing is far less than the leather or rubber, great economy is therefore effected in the manufacture of conveyer-belting.

Having thus described the object and use of my invention, what I claim as new, and desire to secure by Letters Patent, is—

The use of the hemp belting, before described, made substantially as herein represented and set forth, as a new article of manufacture, for the purpose specified.

In testimony whereof I have hereunto set my hand and seal this 29th day of May, 1863.

JOHN CAMPBELL. [L. S.]

Witnesses:

H. E. CLIFTON,
HERRM. BOECKE.