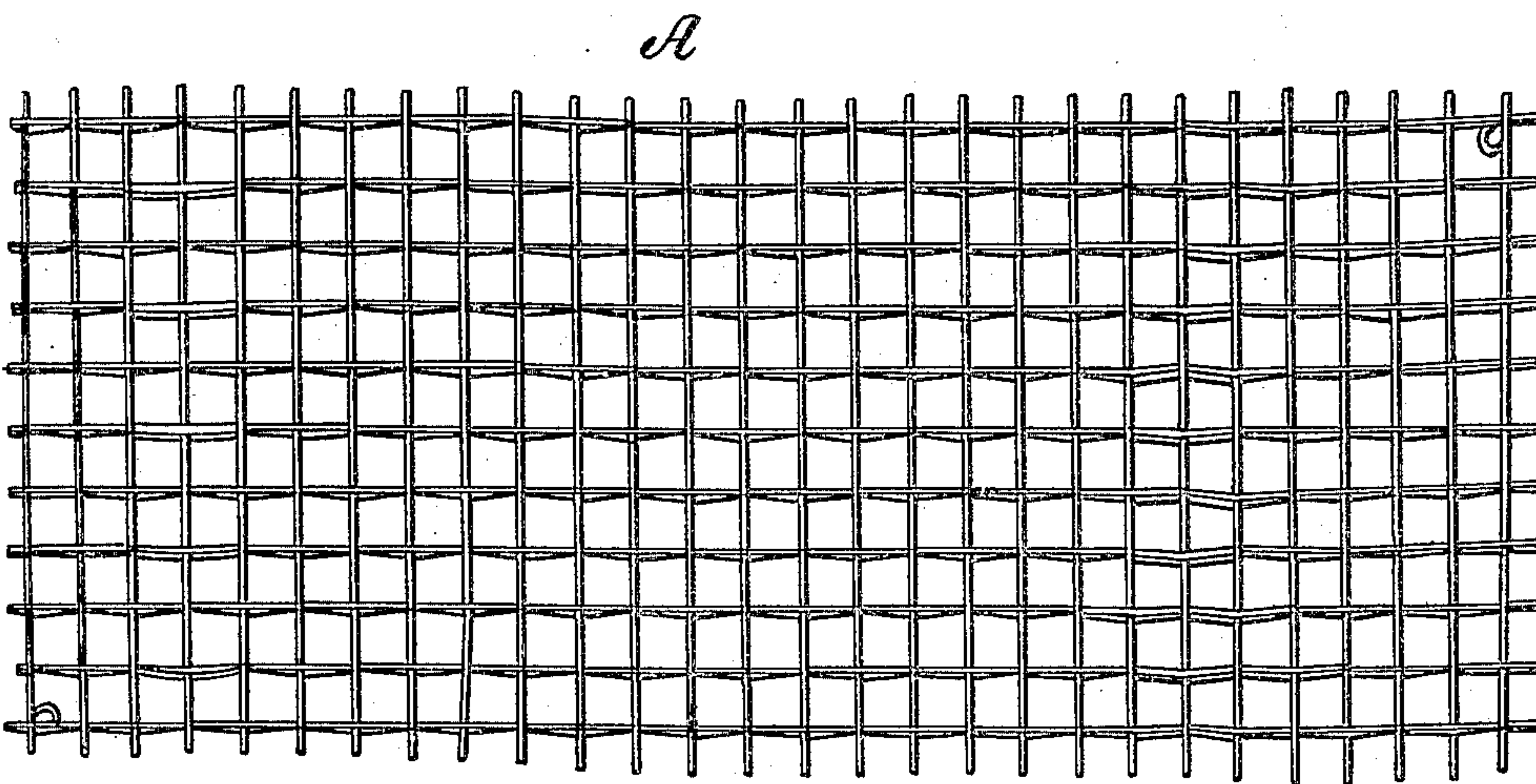
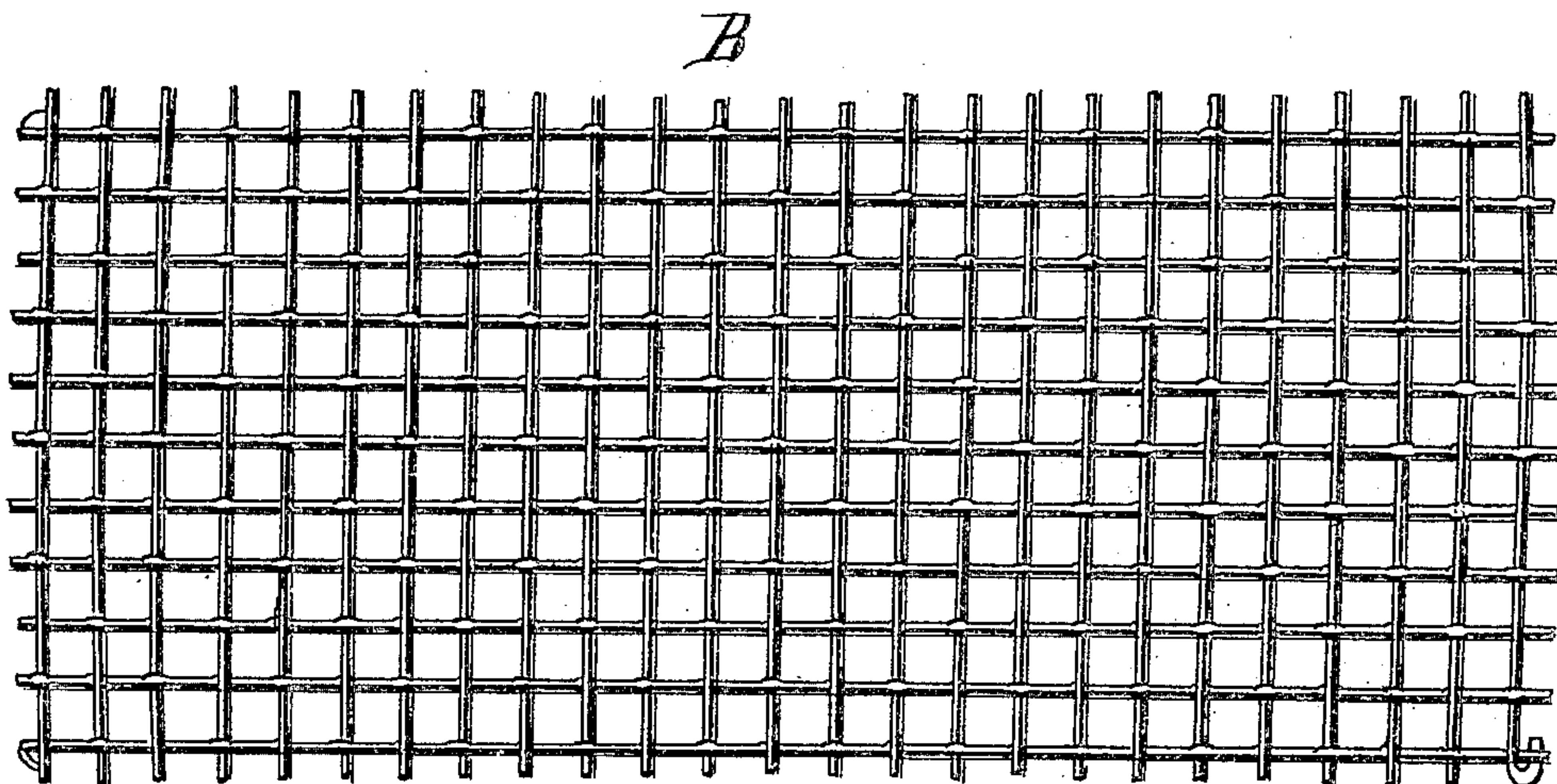


R. NUTTING.
MANUFACTURE OF WIRE CLOTH.

No. 25,578.

Patented Sept. 27, 1859.



Witnesses;
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H. C. C. C. C.

Inventor;
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UNITED STATES PATENT OFFICE.

RUFUS NUTTING, OF RANDOLPH, VERMONT.

IMPROVED MANUFACTURE OF WIRE-CLOTH.

Specification forming part of Letters Patent No. **25,578**, dated September 27, 1859.

To all whom it may concern:

Be it known that I, RUFUS NUTTING, of Randolph, in the county of Orange and State of Vermont, have invented a new and useful Improvement in the Manufacture of Wire-Cloth; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying photographic views and the letters of reference marked thereon.

Wire-cloth as heretofore produced has rough and uneven surfaces, caused by the warp-wires and filling-wires crossing each other in the formation of the cloth, which rough and uneven surfaces are unfavorable to the use of such cloth for many purposes—such, for example, as the screening of grain and other similar operations.

The nature of my said invention, therefore, consists in compressing the wire-cloth after it is woven, whereby the wires of which the cloth is composed are pressed together at the points of crossing, and also slightly flattened, and the surface of the cloth rendered smooth and even.

The compression of the wire-cloth may be effected in any of the well-known modes of compressing metals.

The one I have hitherto most adopted consists in passing it between calender-rollers suitably constructed for the purpose. Direct pressure—such, for example, as is effected by

a hydraulic press—may be used to compress the wire-cloth, the cloth being placed between metal plates in the press, which is operated in the usual way. By direct pressure the meshes of the cloth are better preserved than by passing it between rollers. Grain-screens made of compressed wire-cloth act more efficiently upon grain—that is, the grain glides over them more freely—than do screens made of wire-cloth in the ordinary condition. Compressing wire cloth, as aforesaid, also improves it for many other uses—such, for example, as shielding or guarding the cylinders of carding-machines to prevent the flying off of the cotton or other materials acted upon.

In the accompanying views, A represents a specimen of wire-cloth in its ordinary condition, and B a specimen of similar cloth after it has been compressed.

Having described the nature of my invention and pointed out some of its uses, what I claim as new, and desire to secure by Letters Patent, is—

Compressing wire-cloth by passing it between rollers suitably constructed, or by equivalent means, whereby its surfaces are rendered smooth and even, in the manner and for the purposes substantially as specified.

RUFUS NUTTING.

Witnesses:

S. H. NUTTING,

H. COLONGHON.