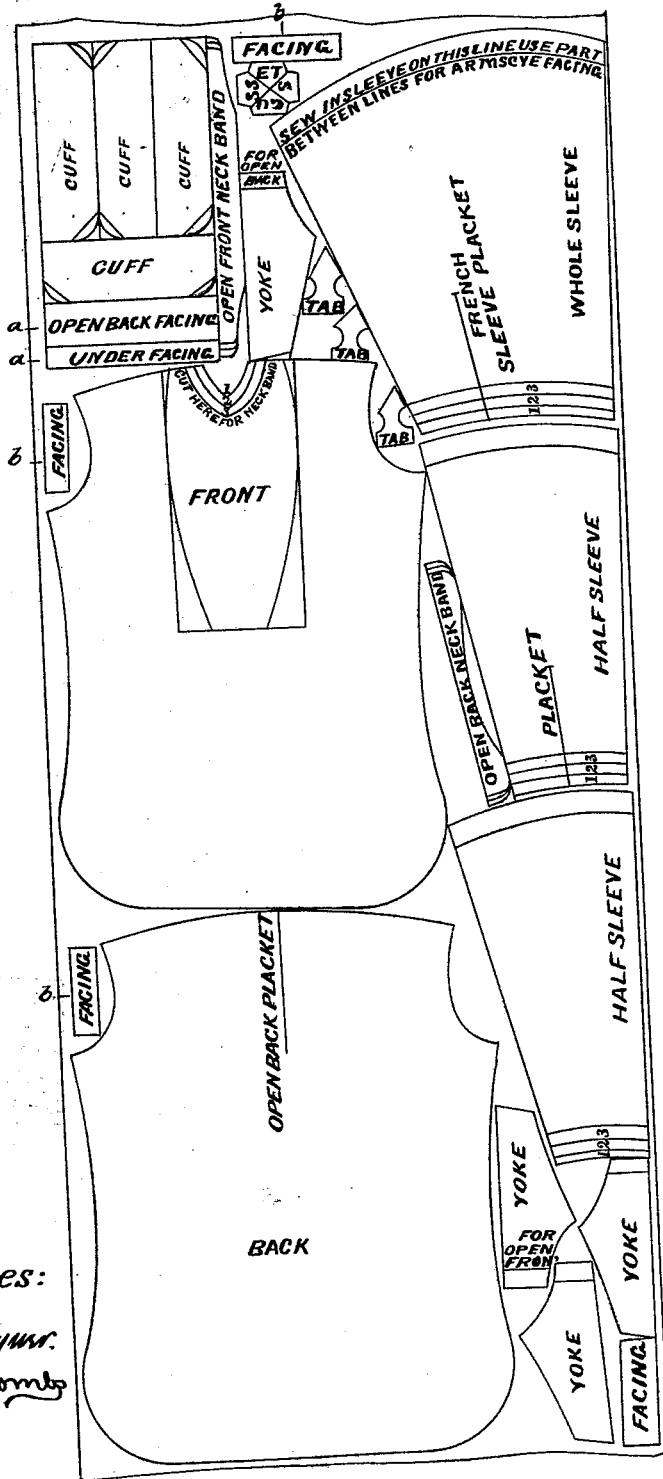


N. C. POND & M. O. WEST.
 MANUFACTURE OF SHIRTS.

Patented Oct. 31, 1876.

No. 183,969.



Witnesses:

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UNITED STATES PATENT OFFICE

NATHAN C. POND, OF PORT CHESTER, NEW YORK, AND MARSHALL O. WEST, OF SPRINGFIELD, MASSACHUSETTS.

IMPROVEMENT IN MANUFACTURE OF SHIRTS.

Specification forming part of Letters Patent No. 183,969, dated October 31, 1876; application filed August 24, 1876.

To all whom it may concern:

Be it known that we, NATHAN C. POND, of Port Chester, in the county of Westchester and State of New York, and MARSHALL O. WEST, of Springfield, in the county of Hampden and State of Massachusetts, have jointly invented a new and useful Improvement in the Manufacture of Shirts, which improvement is fully set forth in the following specification, reference being had to the accompanying drawings.

Our invention consists in printing upon a web of muslin or other shirting, in sections, and in colors easily removed by washing, the exterior lines of every piece pertaining to the construction of a complete shirt, and in printing upon said parts such words and figures as will enable any person of ordinary skill to cut out the shirt readily and accurately, and to combine the several parts properly in the making up, and also in so marking said lines that any one of several different sizes of shirts may be cut from the same pattern-section by means of said printed lines.

The accompanying drawing represents a pattern-section of a web of muslin, one yard wide by about two and a half yards in length, printed in lines, letters, and figures in accordance with our invention.

Every piece necessary to the construction of a complete shirt is represented in said drawing, and each part bears an inscription in Roman letters, showing what it is.

It will be seen that the piece marked "front" has, at the place indicated for the reception of the neck-band, three curved lines, marked "1 2 3," on either of which the material may be cut, according to the size around the neck desired to be produced, as fourteen and a half, fifteen, and fifteen and a half inches, which are the most usual sizes required.

In like manner the pieces designed for the sleeves have each, at their wristband ends, four parallel curved lines, on either of which the material may be cut, according to the length of sleeve desired to be produced—say

thirty-three and a half, thirty-four, thirty-four and a half, and thirty-five inches.

The drawing represents every piece necessary for the construction of two styles of shirts—viz., the open front and open back; also every piece necessary for two styles of sleeves—viz., the French placket-sleeve and the common sleeve.

For an open back and French placket-sleeve all the pieces marked in the drawing are used; but for an open front the pieces marked *a a* are not used, and for a common sleeve the facing-pieces marked *b b b b* are not used.

The lines, letters, and figures are printed by a block-cylinder, in a machine similar to that used for printing paper-hangings, each revolution of the cylinder printing one section, containing all the parts of a shirt, as shown in the drawing.

For a shirt of extra large size the sections must be of increased length, and this will involve the use of a larger printing-cylinder, and also some variation in the arrangement of the parts to be cut out; and similar variations will be necessary for shirts of a smaller size than above indicated.

These variations in the arrangement of the patterns on the printing-cylinder, however, will be easily devised by any person of ordinary skill in the art of shirt-cutting.

By means of our invention we get a complete shirt of average man's size from two and a half yards of yard-wide muslin, and a person of very little skill is enabled to cut out the same with unerring accuracy in very little time, while in the ordinary way at least three yards of material is required for a shirt of the same size, and much more time is consumed in the cutting, even by a skillful cutter.

It will not be necessary to print on each part an inscription indicating its use, as the use of some of the parts will be obvious to the most superficial observer.

What we claim as our invention, and desire to secure by Letters Patent, is—

1. As a new article of manufacture, a web of shirting on which is printed, in deleble colors, in sections, the external lines of all the pieces necessary to the construction of a shirt, with printed inscriptions upon some or all of said parts, indicating what they are, and how they are to be combined in the making up of a shirt, substantially as described.

2. A web of shirting on which is printed, in deleble colors, in sections, the exterior

lines of all the pieces necessary to the construction of a shirt of any one of several different sizes, substantially as shown and described.

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