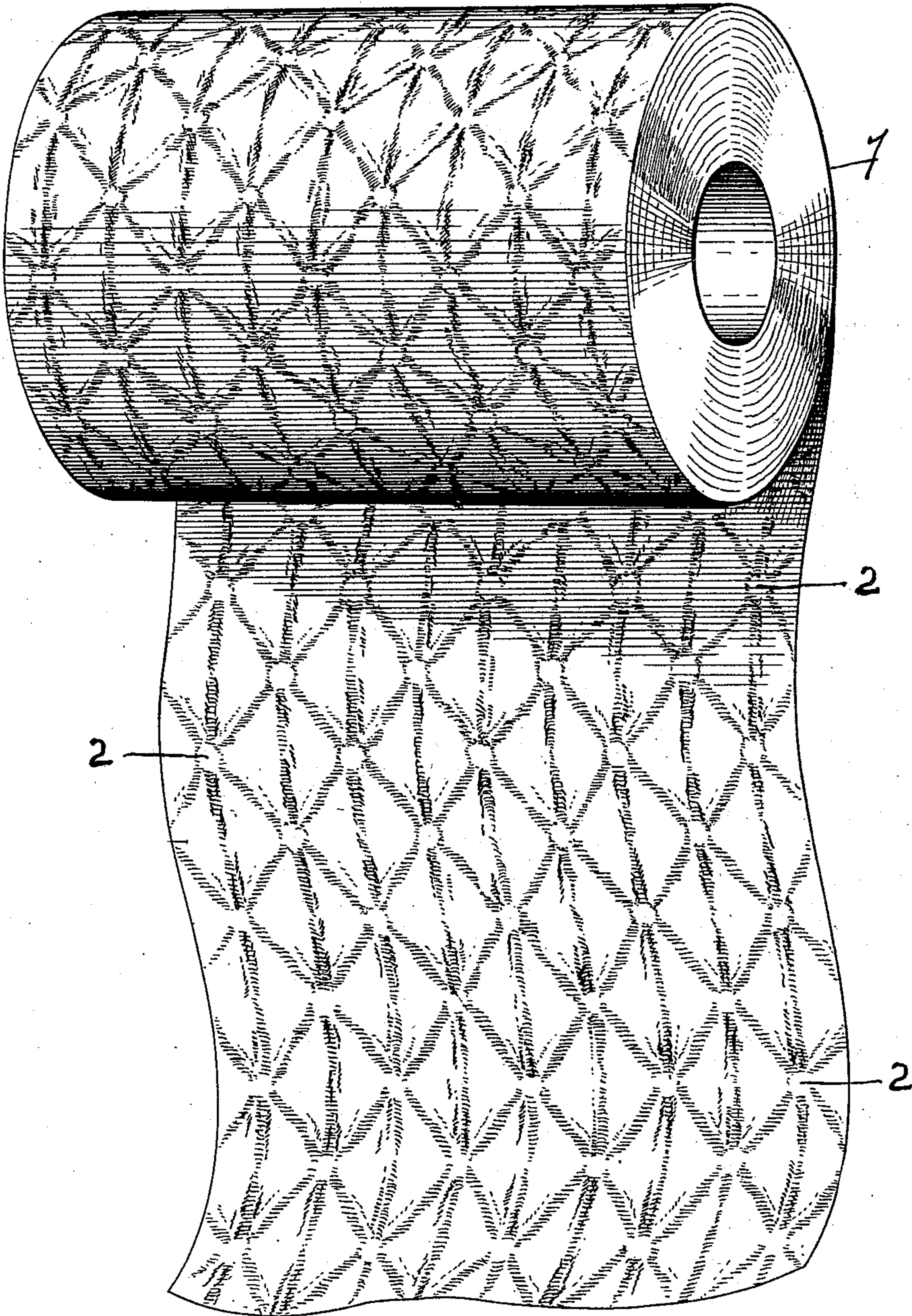


(Specimens.)

S. WHEELER.
PROCESS OF ORNAMENTING PAPER.

No. 497,421.

Patented May 16, 1893.



WITNESSES

J. F. Noakes.
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INVENTOR

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By his Atty. W. M. Brown.

UNITED STATES PATENT OFFICE.

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PROCESS OF ORNAMENTING PAPER.

SPECIFICATION forming part of Letters Patent No. 497,421, dated May 16, 1893.

Application filed September 9, 1892. Serial No. 445,419. (Specimens.)

To all whom it may concern:

Be it known that I, SETH WHEELER, a citizen of the United States, residing at Albany, Albany county, New York, have invented certain new and useful Improvements in a Process of Ornamenting Paper; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawing, and to the letters of reference marked thereon, which forms a part of this specification.

The object of my invention is to provide a new and improved process of ornamenting paper and other fibrous or analogous material by wrinkling the surface so as to produce permanent raised and sunken portions on the surface of the paper or other material operated upon either with or without predetermined pattern lines or spots.

In the drawing the figure shows a side elevation of a roll of toilet paper with the end unrolled, showing one form of ornamentation although the figures or ornamentation instead of being diamond-shaped may be made to assume any form or configuration desired, such as stars, faces, or other figures.

The numeral 1 shows the rolls of paper. At 2 will be seen spots or centers from which wrinkles radiate and said spots 2 being set in rows and staggered, the wrinkles assume the form of diamonds. The process of producing these wrinkles or ornamentations is as follows: I preferably use a good quality of very thin paper. The paper is dampened preferably at spots 2 only, by touching the paper with a dampened brush or pad preferably or by bringing the paper into contact with a brush or pad and then letting the spots dry naturally or by drying them by artificial heat, as may be preferred, but, this dampening of

the paper may be done by sprinkling or in any manner desired and by use of any mechanical contrivance. I do not confine myself to any particular method of producing the dampened spots, and these spots may in fact, assume the form of lines, if desired or any other configuration the operator may see fit to use. The paper may not be perfectly dry when thus dampened in spots or lines, as if it is dampened more at the spots or lines and then dried the ornamentation will be produced. The result is that drying the dampened spots 2 shrinks the paper at these spots or lines and causes the paper or other analogous or fibrous material to wrinkle and these wrinkles will remain permanently in the paper, unlike mere folds, creases, plaits, &c., and herein lies the novelty of the result of my process over all forms of crimping, folding, creasing or plaiting paper, for with very thin paper crimping, creasing, folding, &c., produces results that are not lasting but will soon disappear, while the wrinkles caused by my process will remain permanently in the paper. I therefore make a distinction between wrinkling and mere folding, creasing, plaiting, &c.

Having fully described my invention and the manner of practicing the same, what I claim is—

The process of ornamenting paper and analogous material consisting of dampening the dry material in predetermined patterns, lines, or spots and then drying the material thereby contracting the same at the dampened lines, spots or patterns for the purposes described.

In testimony whereof I affix my signature in presence of two witnesses.

SETH WHEELER.

Witnesses:

E. J. WHEELER,
WM. A. WHEELER.