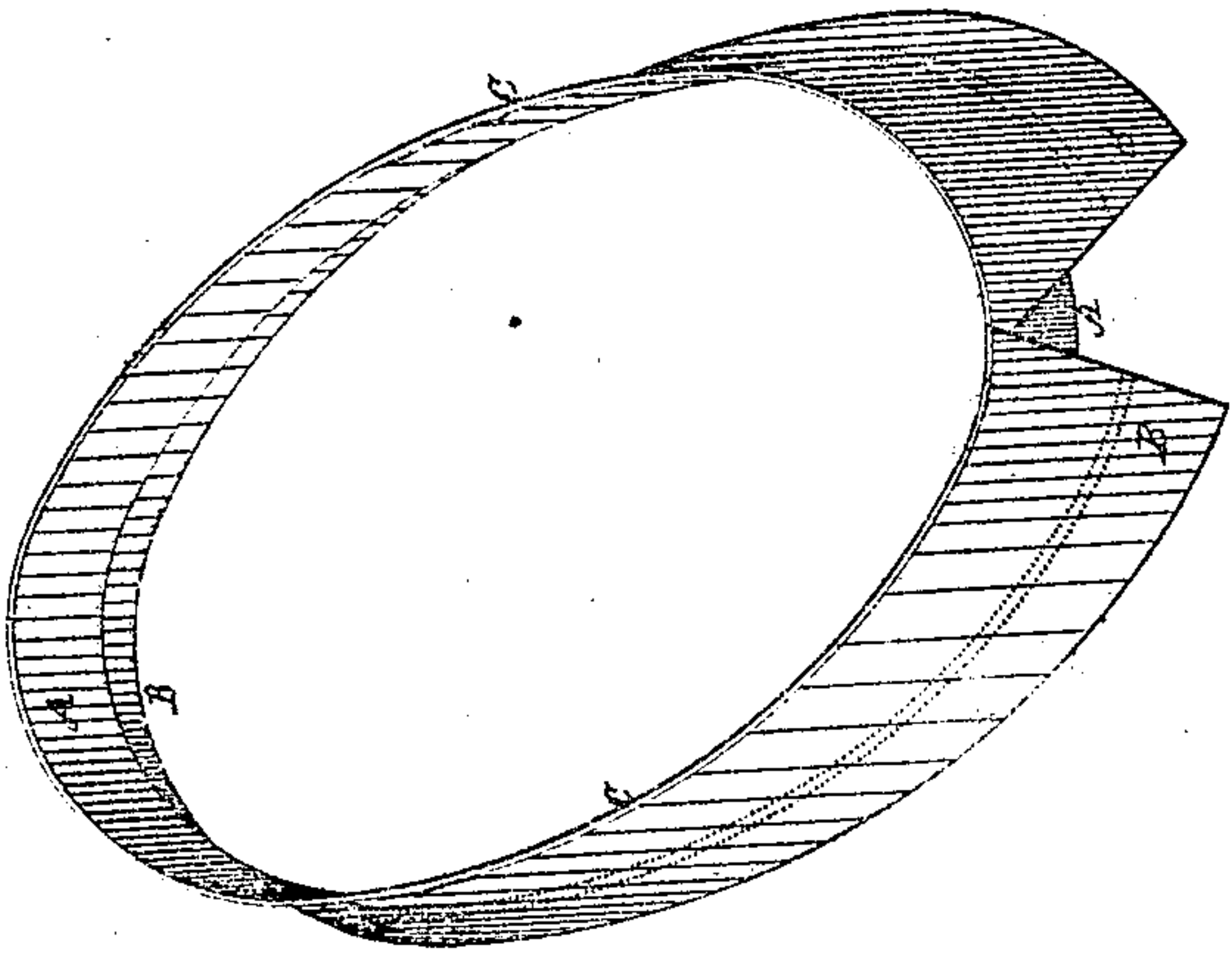


*S. S. Gray.*  
*Collar.*

*No. 52163.*

*Patented Jan. 23. 1866*

*Fig. 1.*



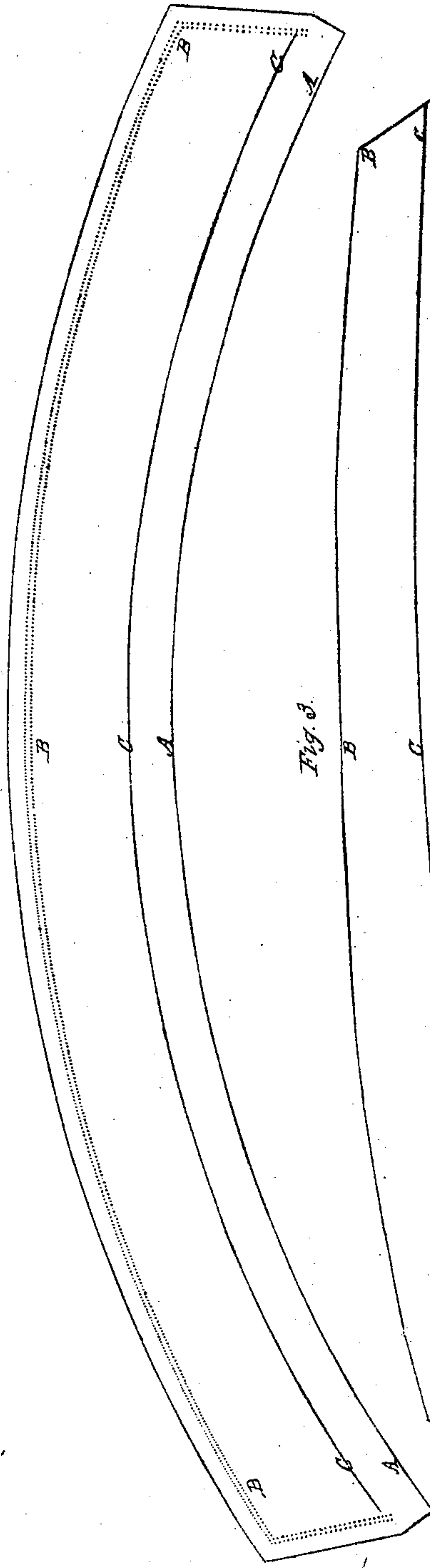
*Fig. 5.*



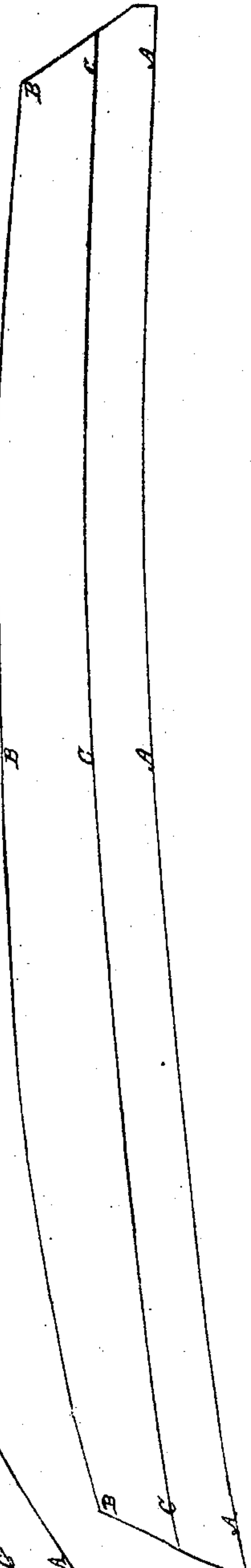
*Fig. 4.*



*Fig. 2.*



*Fig. 3.*



*Witnesses*  
*A. Moore*  
*J. O. Patten*

*Inventor*  
*Solomon S. Gray.*  
*By atty A. B. Stoughton.*

# UNITED STATES PATENT OFFICE.

SOLOMON S. GRAY, OF BOSTON, MASSACHUSETTS.

## IMPROVEMENT IN PAPER COLLARS.

Specification forming part of Letters Patent No. 52,163, dated January 23, 1866.

*To all whom it may concern:*

Be it known that I, SOLOMON S. GRAY, of Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Turn-Over Shirt-Collars Made of Paper or of Paper and Cloth combined; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 represents one of my turn-over collars. Figs. 2 and 3 represent the shape and form of the collar before it is turned over, they differing only in the curvature of the bottom and the folding-line, but both being parallel. Figs. 4 and 5 represent sections through the turned-over collar, to show how the two portions stand off from each other.

Similar letters of reference where they occur denote like parts in all the figures.

My invention consists in making a paper, or a paper and cloth combined, shirt-collar with a curved or concave bottom, and turned over on a line parallel with said curved or concave bottom, for the purpose of making it more comfortably and snugly fit the neck of the wearer.

To enable others skilled in the art to make and use my invention, I will proceed to describe the same with reference to the drawings.

The bottom of the collar, A, is cut on a curved or concave line, and the top portion, B, is turned toward the bottom portion on the line C, which is curved in the same direction as

the bottom line. This makes a paper or paper and cloth collar that comfortably fits the neck of the wearer without crowding forward or riding up behind. Besides, it leaves space enough between the neck or band portion and the turned-over portion to receive a necktie without wrinkling or crimping.

The radius on which the curved line is cut or formed may be greater or less, as shown in Figs. 2 and 3, without changing the character of the invention, and the only difference this change makes in the finished turn-over collar is in the space left between the two portions for the necktie or ribbon.

The particular form, shape, or style of the collar may be varied to suit the fashion without departing from the invention, so long as the bottom portion is curved or concave and the top portion turned over on a line parallel with the bottom, or curved in the same direction with the bottom line. So, too, the depth of the band or neck portion may be greater or less, as may be preferred.

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

A paper or a paper-and-cloth turn-over collar with a curved or concave bottom, and turned over on a line curved in the same direction, substantially as and for the purpose set forth and described.

SOLOMON S. GRAY.

Witnesses:

A. B. STOUGHTON,  
JAMES A. WOODBURY.