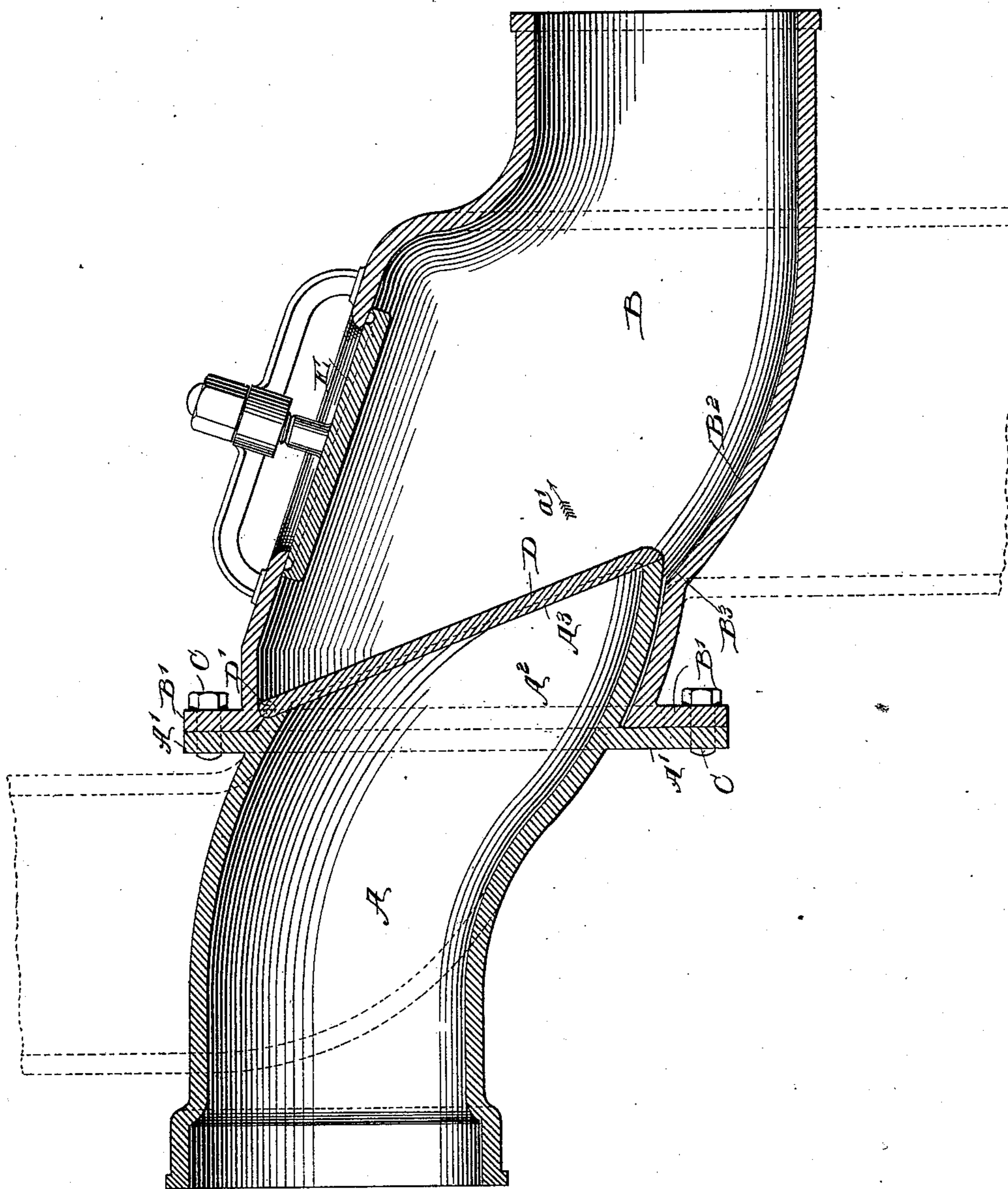


(No Model.)

W. GODFREY.  
SEWER VALVE.

No. 539,680.

Patented May 21, 1895.



WITNESSES:

*William Gebel.*

*Geo. H. H. H.*

INVENTOR

*W. Godfrey*

BY

*Munn & Co*

ATTORNEYS.

# UNITED STATES PATENT OFFICE.

WILLIAM GODFREY, OF SAUGATUCK, CONNECTICUT.

## SEWER-VALVE.

SPECIFICATION forming part of Letters Patent No. 539,680, dated May 21, 1895.

Application filed June 12, 1894. Serial No. 514,312. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM GODFREY, of Saugatuck, in the county of Fairfield and State of Connecticut, have invented a new and Improved Sewer-Valve, of which the following is a full, clear, and exact description.

The object of the invention is to provide a new and improved sewer valve, which is comparatively simple and durable in construction, and arranged to insure the positive passage of the liquid and opening of the valve, without danger of clogging.

The invention consists of certain parts and details, and combinations of the same, as will be fully described hereinafter and then pointed out in the claim.

Reference is to be had to the accompanying drawing, forming a part of this specification, in which the figure is a sectional side elevation of the improvement.

The valve casing is formed in two halves or sections, an inlet section A and an outlet section B, and these sections are provided, respectively, with flanges A', B', at their adjacent ends, through which flanges pass bolts C for securing the sections together. The section A is curved or bent downward as clearly seen, and beyond its flange A' is formed an extension A<sup>2</sup> having its inner walls formed to correspond to the walls of the main portion of the section A, but beveled or inclined at its edges A<sup>3</sup> in such a manner that the portion of said extension at the top of the section is of much less width than the corresponding portion at the bottom thereof. This beveled edge A<sup>3</sup> of the extension A<sup>2</sup>, forms a seat for a valve D, hinged to the upper part of the extension and adapted when seated to stand in the inclined position seen. The section B at its mouth is of a somewhat larger diameter than the body of section A, and its interior is adapted to receive and shaped to correspond with the contour of the extension A<sup>2</sup> of section A, as clearly seen. At a slight distance beyond its mouth, however, and between that point and the lower edge of the extension A<sup>2</sup>, the bottom B<sup>2</sup> of section B, is sharply curved or bent down so as to form an offset or drop B<sup>3</sup> at that point. In this way a clear space is provided under the lower edge of valve D, so that the sewerage passing

through said valve will fall clear into section B and not tend to clog or prevent the closing of said valve. As illustrated in dotted lines in the drawing, the upper end of the section A, may extend vertically upward, and the section B, may extend vertically downward, so that the drop B<sup>3</sup> is vertical for a considerable distance, as will be readily understood. By the arrangement described, the liquid or other material passing into the section A, flows down the curved end A<sup>2</sup> to strike the valve D, so as to impart an opening swinging motion to the said valve, in the direction of the arrow a'; the liquid or other material passing over the lower end of the section A, into the section B, by the sudden drop previously explained. As soon as the liquid has passed through the section A, the valve D automatically closes by its own weight. In the top of the section B is arranged a manhole or handhole, closed by the usual plate E; the said manhole serving to give ready access to the valve D, whenever necessary.

Having thus fully described my invention, I claim as new and desire to secure by Letters Patent—

In a sewer or the like the combination of the pipe section provided with a peripheral flange and having the lower portion of its extension in advance of such flange inclined downward and made longer than its upper portion whereby to provide at the end of said portion a valve seat inclined to the vertical said section being continuous and free of joints whereby it is unbroken past its peripheral flange, the valve fitting said seat, and the outlet section having at its end a flange abutting and secured to that of the valve seat section and having its lower portion adjacent to said flange underlying and fitting closely to the under side of the valve seat section for a distance from the flange nearly to the valve seat and having immediately back of said valve seat a dropped portion whereby to avoid clogging the valve seat by accumulations, all substantially as and for the purposes set forth.

WILLIAM GODFREY.

Witnesses:

THEO. G. HOSTER,  
C. SEDGWICK.