

C. E. CARPENTER.

PLAITING-MACHINE.

No. 172,386.

Patented Jan. 18, 1876.

Fig. 1.

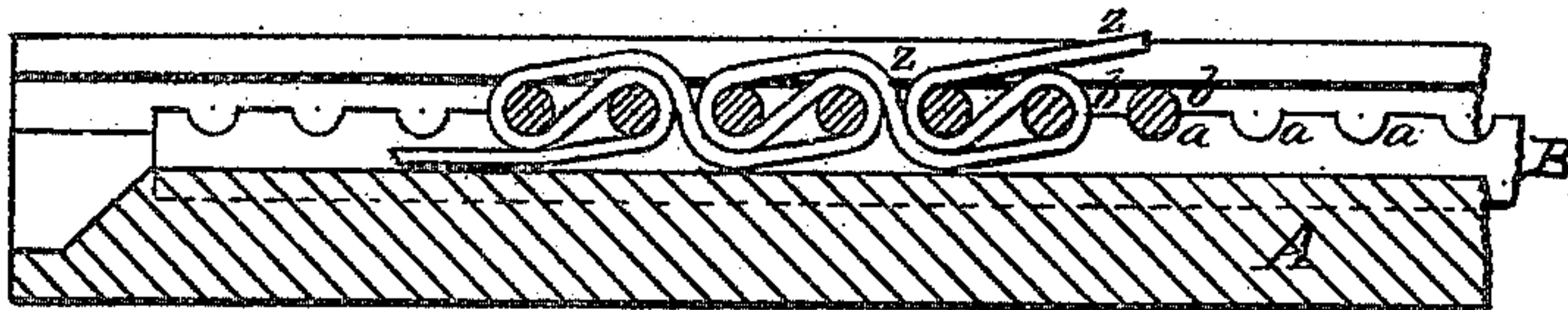


Fig. 2.

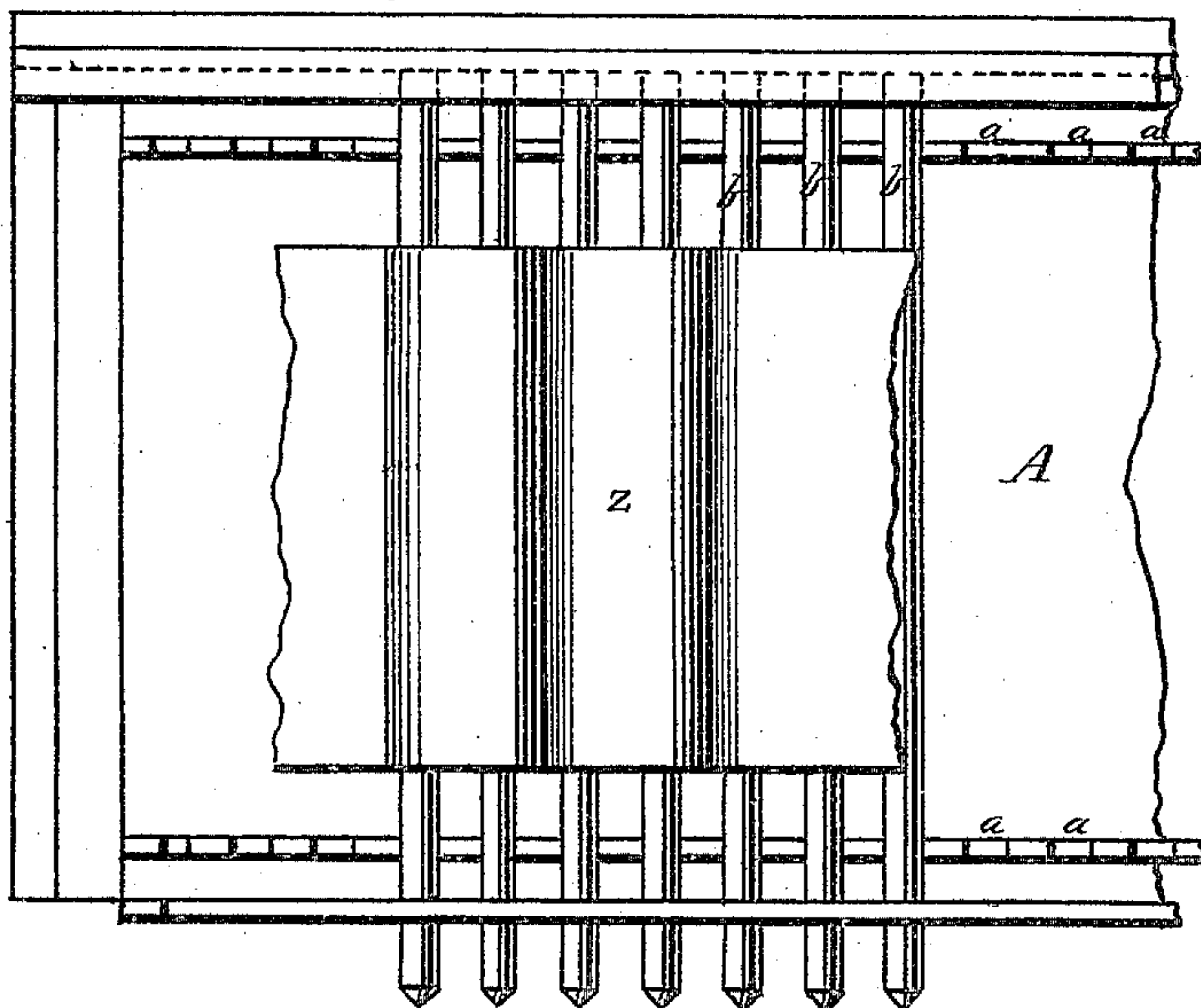
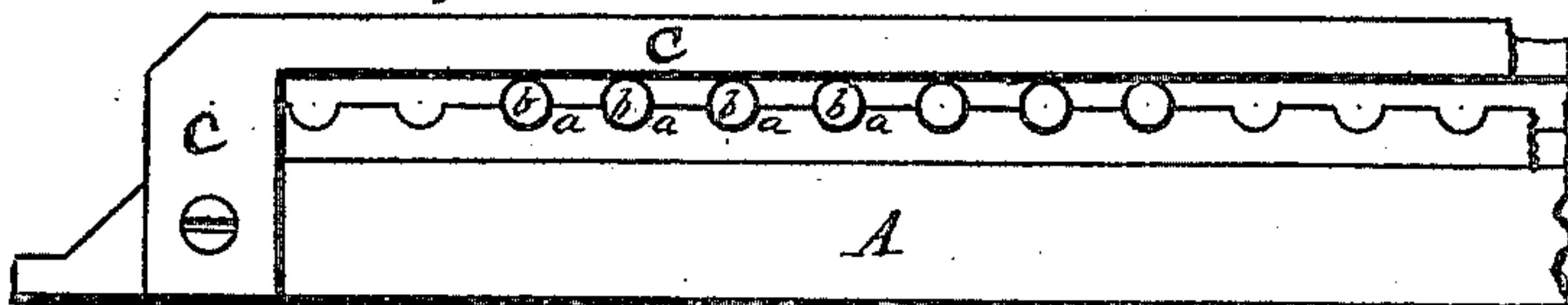


Fig. 3.



WITNESSES

H. Bates.
Walter C. Masi

INVENTOR

C. E. Carpenter,
Chipman & Son, Co.,
ATTORNEYS

UNITED STATES PATENT OFFICE.

CALVIN E. CARPENTER, OF SYRACUSE, NEW YORK.

IMPROVEMENT IN PLAITING-MACHINES.

Specification forming part of Letters Patent No. **172,386**, dated January 18, 1876; application filed December 4, 1875.

To all whom it may concern:

Be it known that I, CALVIN E. CARPENTER, of Syracuse, in the county of Onondaga and State of New York, have invented a new and valuable Improvement in Side-Plaiters; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a horizontal sectional view. Fig. 2 is a plan view. Fig. 3 is a side view.

This invention has relation to means for plaiting cloth; and it consists in the construction and novel arrangement of a series of needles, and spaced bearings for the ends thereof, in which the needles are placed under and over the cloth, which is folded backward and forward on the same, as hereinafter described.

In the accompanying drawings, the letter A designates the base board or frame, having at each side edge a raised rib or flange, B, provided with a series of spaced bearings, *a*, in which the respective ends of the needles rest when in position.

The recessed cap-bars answer an excellent purpose in this connection, the object being to obtain freedom in placing the needles in the cloth, and security of position after they are located.

b b designate the needles, which may be made of wire, wood, or any suitable material. These are designed to be laid horizontally and

parallel with each other in the bearings, in connection with the cloth in the following manner: Place the cloth on the base-board between the edge-bearings, and put a needle through the second pair of bearings on the upper surface of the cloth *z*. Then bring the cloth back over this needle, and place a needle in the first pair of bearings above that side or surface (the under side) of the cloth which is now uppermost. Then carry the cloth around this needle and forward over both needles, putting in the third needle above the cloth in the fourth pair of bearings. Pass the cloth back over the third needle, and put in the fourth in the third pair of bearings, and continue the plaiting with the needles in this manner as far as required. When wider plaits are required, the bearings are skipped in placing the needles. When the latter are all located, the cloth is pressed with an iron.

What I claim as new, and desire to secure by Letters Patent, is—

The frame A, having at each side a raised flange, B, provided with a series of bearings, *a*, and the cap-bar C, in combination with parallel plaiting-needles, substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

CALVIN EZEKIEL CARPENTER.

Witnesses:

IRVING G. VAUN,
GEO. S. ROBINSON.