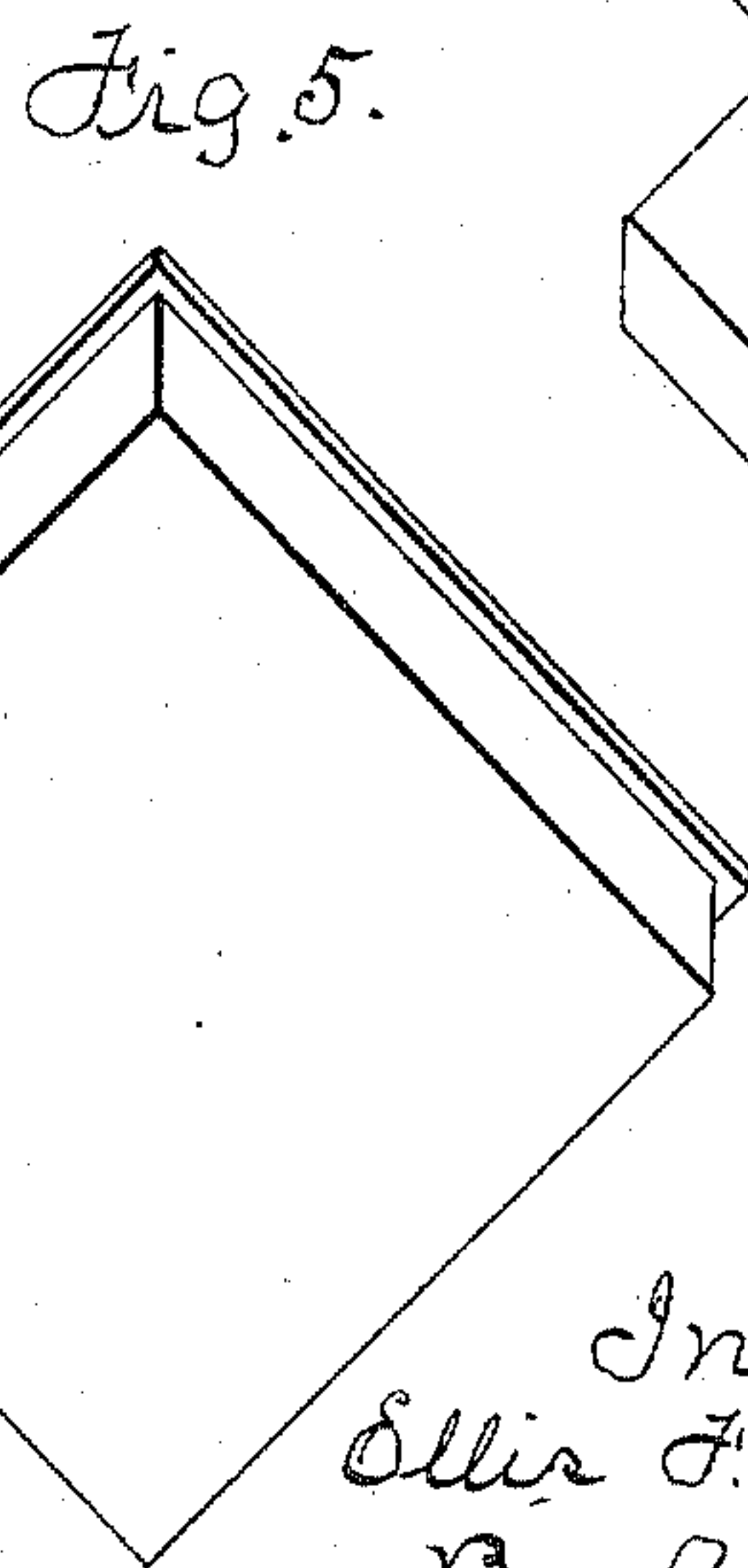
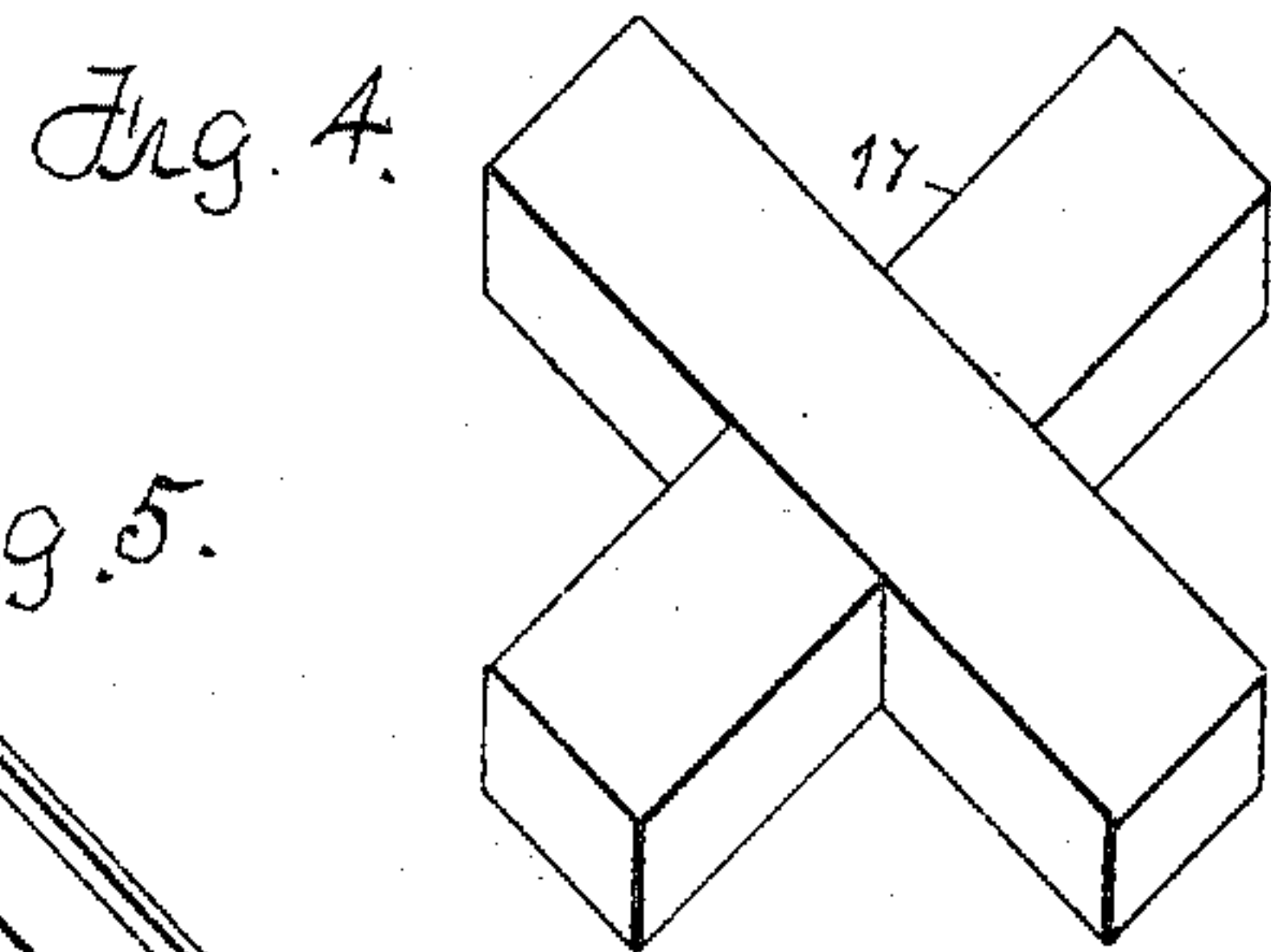
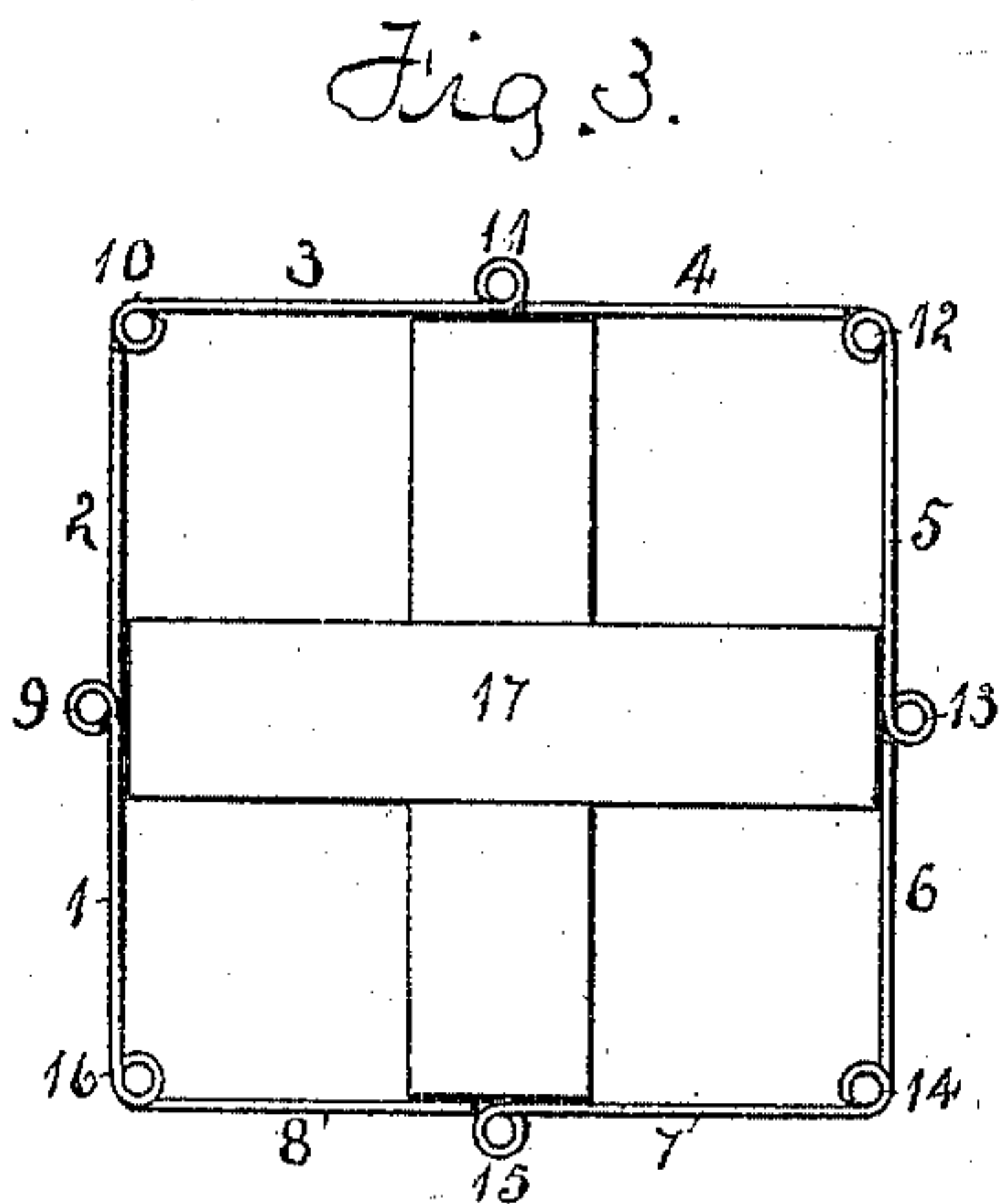
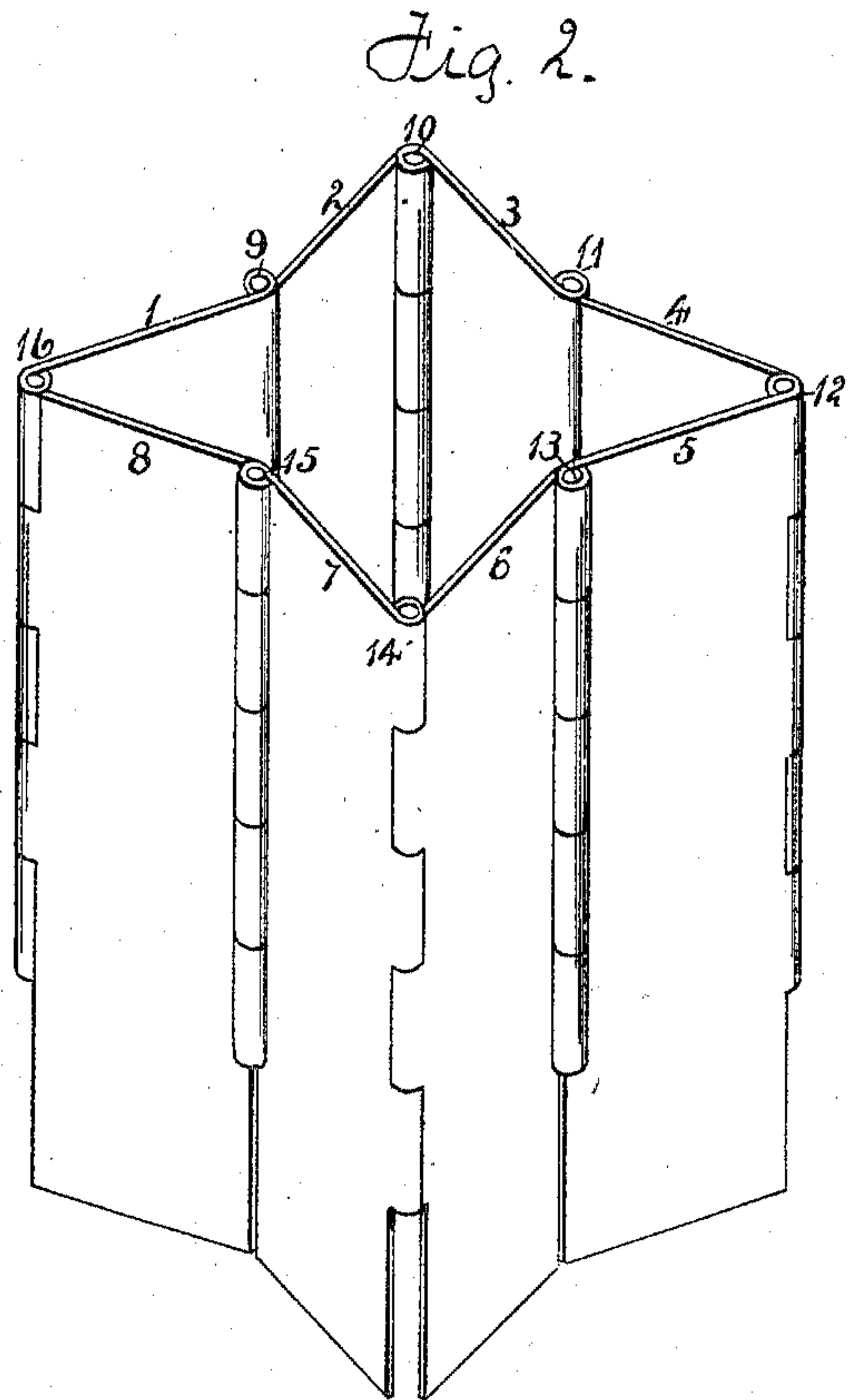
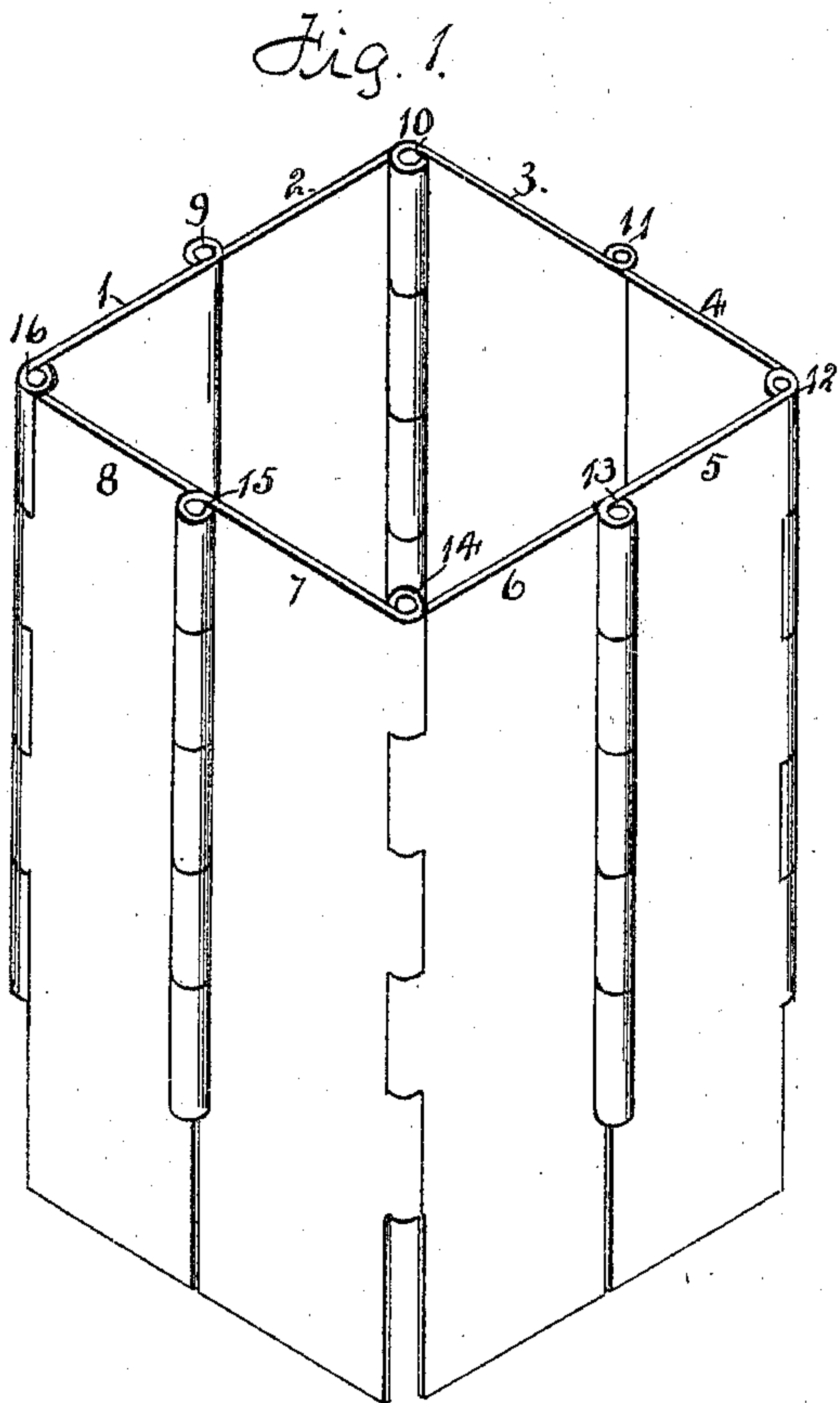


E. F. SMITH.
 COLLAPSIBLE CORE,
 APPLICATION FILED MAR. 31, 1909.

950,827.

Patented Mar. 1, 1910.



Witnesses:
 E. Behel.
 C. B. Clark.

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UNITED STATES PATENT OFFICE.

ELLIS F. SMITH, OF FREEPORT, ILLINOIS.

COLLAPSIBLE CORE.

950,827.

Specification of Letters Patent.

Patented Mar. 1, 1910.

Application filed March 31, 1909. Serial No. 487,084.

To all whom it may concern:

Be it known that I, ELLIS F. SMITH, a citizen of the United States, residing at Freeport, in the county of Stephenson and State of Illinois, have invented certain new and useful Improvements in Collapsible Cores, of which the following is a specification.

The object of this invention is to construct a collapsible core for forming air passages in concrete construction.

In the accompanying drawings, Figure 1 is a perspective view of my improved collapsible core in its extended condition. Fig. 2 is a sectional view in which the core is partially collapsed. Fig. 3 is a plan view. Fig. 4 is a perspective view of the expander. Fig. 5 is a perspective view of the removable cover.

My improved collapsible core is formed of sections 1, 2, 3, 4, 5, 6, 7 and 8 connected by the hinges 9, 10, 11, 12, 13, 14, 15 and 16. The hinges 9, 11, 13 and 15 have their pintles located outside of the outer face of the sections and the pintles of the hinges 10, 12, 14 and 16 are located on the inside face of the sections. The hinge connection of the sections is not continued the entire length of the sections in order that the lower portions of the sections may form tongues which will enter the upper end of another core. The sections of the core are capable of collapsing as shown at Fig. 2, in which they are partially collapsed in order that the core may be removed.

In use the cores are placed in position in the formation of a wall, and are held ex-

tended by the expander 17 shown at Fig. 4, which is formed of crossed bars so that the four ends thereof will rest against the hinges 9, 11, 13 and 15. A cover 18 is placed over the upper end of a core which will prevent concrete entering the core, said cover having a marginal flange that prevents the same slipping down into the core. Concrete is then placed around the core nearly to the top thereof. The cover is removed and another core placed in connection with the top of the core already in the wall, the cover is then replaced, and concrete filled in around the second core and so on until a number of cores are used. After the wall has sufficiently set, the expanders are removed, and the cores collapsed which will enable them being withdrawn.

I claim as my invention.

1. A collapsible core comprising sections hinged together, some of the hinges folding inward and others folding outward, the hinges terminating short of the length of the sections, forming tongues to engage within the end of a coacting core.

2. A collapsible core comprising hingedly connected sections, the hinges terminating short of one end of the core, forming a plurality of tongues to enter an adjacent coacting core.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

ELLIS F. SMITH.

Witnesses:

A. H. WIEMAN,
M. V. B. ELSON.