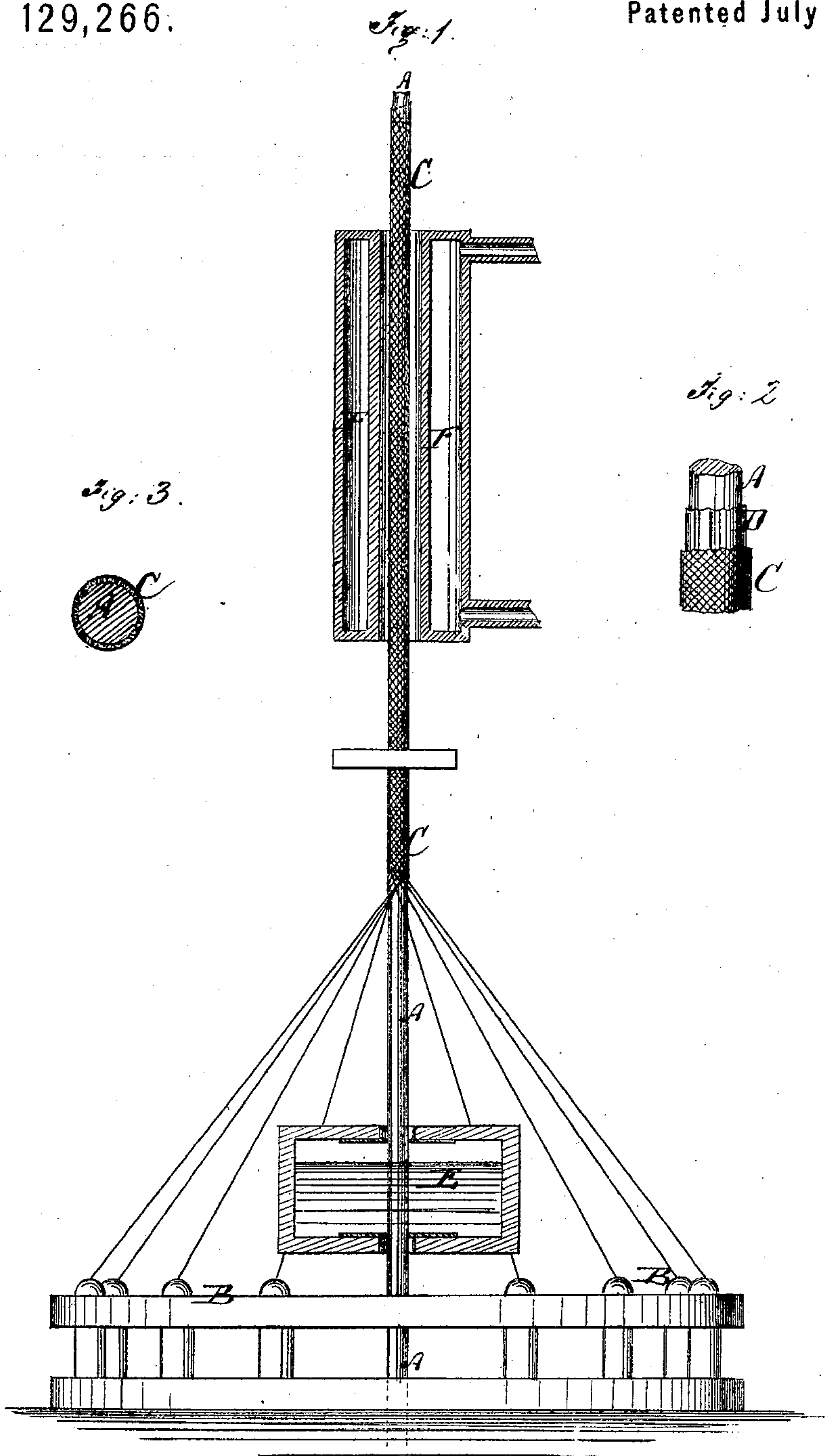


W. H. BATES & H. FAULKNER.

Improvement in Mode of Manufacturing Water-Proof Tubing.

No. 129,266.

Patented July 16, 1872.



Witnesses:

Chas. Nida.
Geo. H. Mabee

Inventor:

W. H. Bates
H. Faulkner

PER

Munnell
Attorneys.

UNITED STATES PATENT OFFICE.

WILLIAM H. BATES AND HUGH FAULKNER, OF LEICESTER, ENGLAND,
ASSIGNORS TO EZRA THOMAS SAWYER, OF EAST HAMPTON, MASS.

IMPROVEMENT IN THE MODES OF MANUFACTURING WATER-PROOF TUBING.

Specification forming part of Letters Patent No. 129,266, dated July 16, 1872.

Specification describing an Improved Mode of Manufacturing Tubular Braided Fabrics, invented by WM. H. BATES and HUGH FAULKNER, of Leicester, England.

Figure 1 represents a sectional elevation of a braiding-machine. Fig. 2 is a sectional side view of the fabric and core; Fig. 3, a transverse section of the same.

Our invention consists in the method hereinafter described of making water-proof braid.

A in the drawing represents the core. This core is made of India rubber, cylindrical, solid, and of proper length. It is drawn through a braiding-machine, B, while the fabric C is being braided about it. In making water-proof braid or tubing it is desirable to apply the braiding directly to the lining-tube. Hence the rubber-tube D (see Fig. 2) is first drawn over the rubber core A. The core is then drawn through a box, E, of rubber cement or solution, and thus receives a coating, whereby the threads of braid are braided and firmly embedded and united to the lining D. The braided and lined tube is then drawn through

a heated cylinder, F, wherein the volatile solvent of the solution will be evaporated, leaving the braid and inner lining united. After the core has been covered with the braid it is, at any convenient time, stretched lengthwise. This reduces its diameter, and greatly facilitates the removal from it of the tubular braid.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is—

The method of forming water-proof braiding or tubing by drawing a rubber tube over a flexible core, coating it with a rubber solution, then braiding the fabric thereon, and finally passing it through a heated cylinder, as described.

The above specification of our invention signed by us this 13th day of December, 1871.

WILLIAM HENRY BATES.
HUGH FAULKNER.

Witnesses:

ALFRED BROMWICH,
STEPHEN PRAKE.