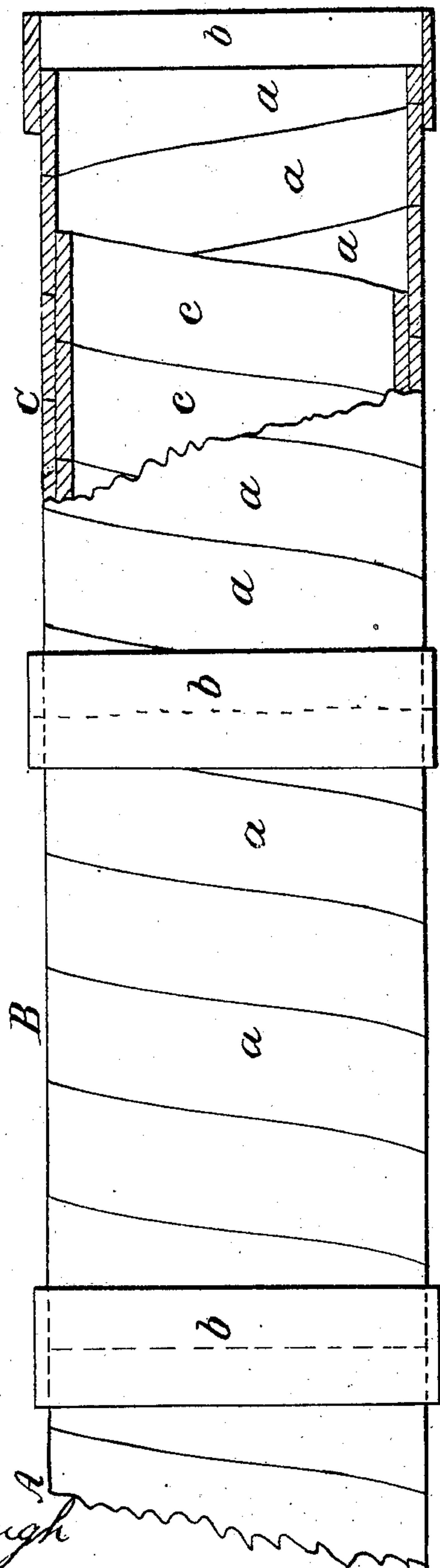


J. S. Patric,
Water Pines,
No 50, 154, Patented Sept. 26, 1865.



Witnesses
J. M. Longhorough
W. M. Bates

Inventor
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UNITED STATES PATENT OFFICE.

JOHN S. PATRIC, OF VICTOR, NEW YORK.

IMPROVED WATER-PIPE.

Specification forming part of Letters Patent No. **50,154**, dated September 26, 1865; antedated September 18, 1865.

To all whom it may concern:

Be it known that I, JOHN S. PATRIC, of Victor, in the county of Ontario and State of New York, have invented a new and useful Pipe for Water and other Purposes; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing, making part of this specification.

The drawing represents a portion of two or three lengths of this pipe, one end being shown in vertical section, with two or three coils of the inner hoop, C, removed to show how the coils cross.

The nature of this invention consists in the employment of wooden hoops wound spirally around a proper former in such a manner as to constitute a pipe suitable to conduct water, air, gas, &c.

To enable others to work my invention, I will describe it in detail.

I use a wooden hoop, *a*, of suitable length and width to form one length of pipe of a desired size. The hoops are steamed and the edges glued or cemented as they are being wound. The ends are properly secured by screws or otherwise until the coil is dry, after which it may be lined with paper and a coating of paint or coal-tar, which would render it sufficiently impervious to conduct air or gas.

When very strong pipe is required, the

lengths may be coiled double, the hoops *a* crossing the hoops *c*, as seen in the drawing.

The lengths A, B, and C are connected by hoops or bands *b*, which may be made either of wood or iron and the lengths joined in glue; or if the pipe is to be used for water, hydraulic or other suitable cement may be used.

It is believed that pipes made in this way sustain a far greater strain than any other cheap pipe as heretofore made.

When longer lengths of the pipe are desired than one length of hoop will make, there may be any number of them used by splicing them as they are coiled, which may be done by riveting or otherwise attaching thin plates of iron to the ends of the hoops.

If the pipe is to be used for under-draining, the hoops should be coiled with a little space between their edges through which to receive the drainage.

This pipe may also be used to protect buried telegraph-wires.

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

The pipe composed of wooden hoops spirally wound, substantially as shown, and for the purposes herein set forth.

JOHN S. PATRIC.

Witnesses:

WM. S. LAUGHBOROUGH,
WILLIAM M. BATES.