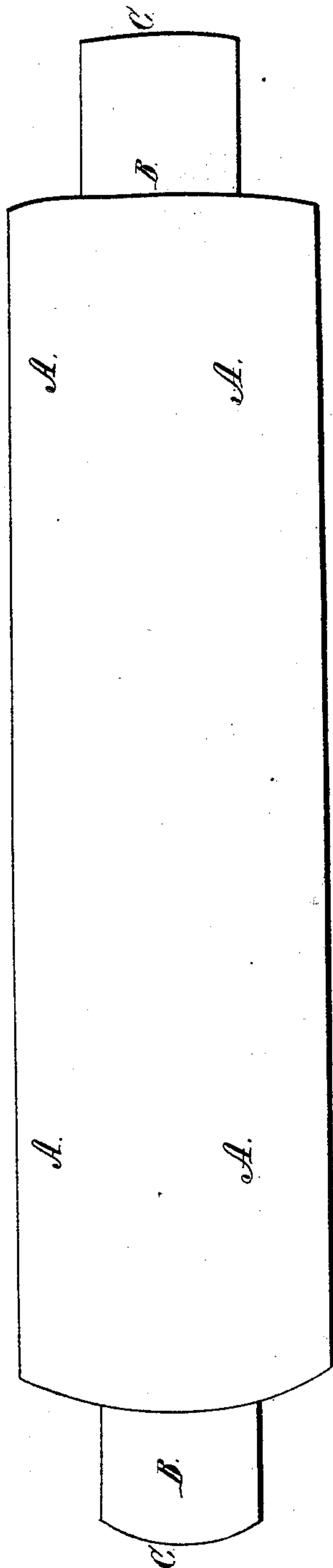


*R. B. Stevenson,*

*Water Pipe,*

*No 11,814,*

*Patented Oct. 17, 1854.*



*Inventor:*  
*Richard, B. Stevenson.*

# UNITED STATES PATENT OFFICE.

RICHARD B. STEVENSON, OF YORK, SANDUSKY COUNTY, OHIO.

## IMPROVEMENT IN WATER-PIPES.

Specification forming part of Letters Patent No. **11,814**, dated October 17, 1854.

*To all whom it may concern:*

Be it known that I, RICHARD B. STEVENSON, of the township of York, county of Sandusky, and State of Ohio, have invented a new and Improved Mode of Constructing Pipe; and I do hereby declare that the following is a full and exact description of the said invention.

The object of my invention is to coat with hydraulic mortar metal pipes, so as to protect them from the action, oxidation, and other chemical agents of corrosion on the exterior to which they may be exposed, while at the same time it gives increased strength and security to pipes against leakage, and I avail myself this to make use of sheet-zinc or other sheet metal suitably cheap and secure from interior corrosion to make light, cheap, and durable water-pipe.

The zinc pipe is so made that the edges of the pieces forming the same may be fastened together in any durable manner, and so that the separate pieces of the zinc pipe will fit tightly onto each other, like ordinary stove-

pipe. The cement is then in any convenient manner placed and confined around the zinc pipe till it becomes hard, when it will be found they will adhere perfectly together. The walls of cement should be about the same thickness in inches that the zinc pipe is in diameter.

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

The combination of pipe of sheet-zinc or other suitably cheap and durable sheet metal and an exterior coating of said hydraulic-cement mortar of requisite thickness for strength, durability, and impermeability, for conveying water or other fluids beyond the action of frost from one point to another.

The same mode of construction may be applied to casing wells, conveying fluids, or other purposes of the same nature.

RICHARD B. STEVENSON.

Witnesses:

FOSTER M. FOLLETT,  
SAMUEL MINOR.