

*S. Vanstone,*

*Coupling Pipe.*

*No. 104,905.*

*Patented June 28. 1870.*

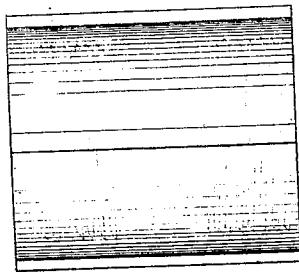


FIG. 1.

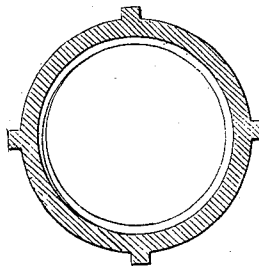


FIG. 2.

WITNESSES.

*Walter D. Vincent*  
*George Q. Hall*

INVENTOR.

*Sammuel Vanstone*

# United States Patent Office.

SAMUEL VANSTONE, OF PROVIDENCE, RHODE ISLAND.

*Letters Patent No. 104,905, dated June 28, 1870.*

## IMPROVED WROUGHT-IRON COUPLING-PIPE.

The Schedule referred to in these Letters Patent and making part of the same.

*To all whom it may concern :*

Be it known that I, SAMUEL VANSTONE, of the city and county of Providence, in the State of Rhode Island, have made certain new and useful Improvements in "Coupling-Pipe;" and I do hereby declare that the following specification, taken in connection with the drawing making a part of the same, is a full, clear, and exact description thereof.

Figure 1 shows my improved pipe.

Figure 2 is a section of the same.

My invention consists in making coupling-pipe from wrought iron, as hereinafter described, and has for its object the production of an article which, from its increased strength and durability, as well the facility with which it may be used, shall be superior to others now in use.

I am aware that a smooth coupling-pipe has heretofore been made from wrought iron by the usual rolling and drawing process.

It is necessary, however, in making coupling-pipe, to so construct the same that the tongs may get an easy and certain grip, not only for the purpose of decreasing the necessary outlay of strength required to adjust it, but to overcome the difficulties arising where the locality is such that the necessary strength re-

quired to adjust a smooth coupling could not be expended.

In my invention I overcome this difficulty by rolling the coupling-pipe with two or more ridges running lengthwise, as shown in the drawing, for the purpose of enabling the tongs to obtain an easy and secure grip.

The pipe, however, may be rolled with grooves in place of the ridges, although the latter I consider preferable, as they increase its strength, while the former weaken it.

Thus I produce a wrought-iron coupling-pipe as a new article of manufacture, having upon its surface ridges, (or grooves,) which, for facility of adjustment and strength, render it superior to the wrought-iron coupling-pipe now in use.

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

A wrought-iron coupling-pipe, made with ridges or grooves, substantially as described.

SAMUEL VANSTONE.

Witnesses:

WALTER B. VINCENT,  
GEORGE O. FALL.