

W. C. ALLISON.
Screw-Threaded Pipe Joint and Coupling.
No. 214,076. Patented April 8, 1879.

Fig. 1

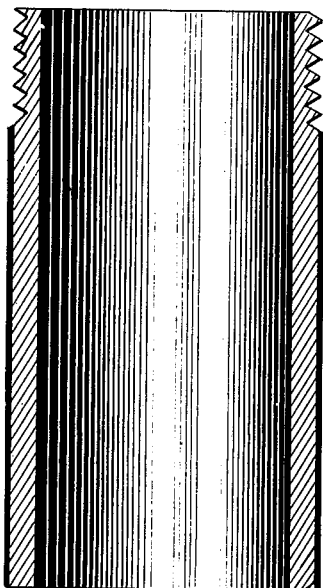


Fig. 2

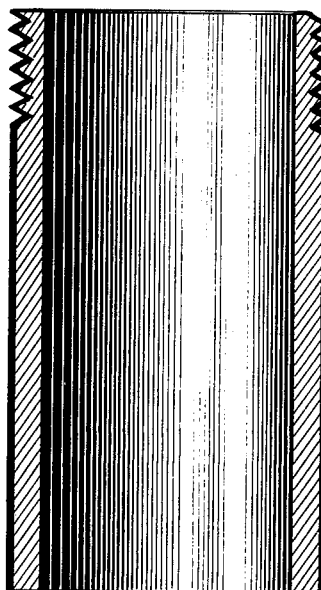
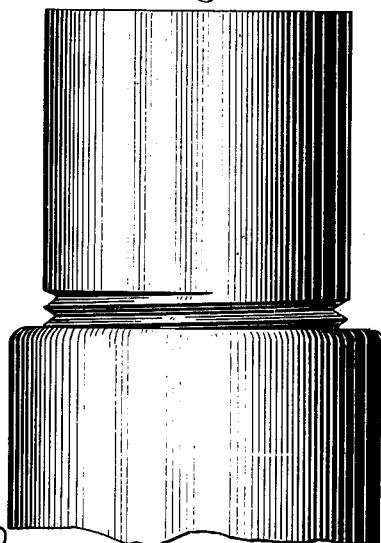


Fig. 3



Attests

John D. Taylor, Jr.

Inventor

W. C. Allison
By his Attorneys,
W. C. Strawbridge,
Bonall Taylor.

UNITED STATES PATENT OFFICE.

WILLIAM C. ALLISON, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO
W. C. ALLISON & CO., OF SAME PLACE.

IMPROVEMENT IN SCREW-THREADED PIPE JOINTS AND COUPLINGS.

Specification forming part of Letters Patent No. **214,076**, dated April 8, 1879; application filed
February 8, 1879.

To all whom it may concern:

Be it known that I, WILLIAM C. ALLISON, of Philadelphia, Pennsylvania, have invented a new and useful Improvement in Screw-Threaded Pipe Joints and Couplings, and the like, of which the following is a full, clear, and exact specification, reference being had to the accompanying drawings, forming part hereof, and in which—

Figure 1 is a central sectional elevation of a finished section of screw-threaded pipe constructed according to my invention; Fig. 2, a similar view of the same prior to the burnishing of the thread, and Fig. 3 an elevation of a coupling constructed according to my invention.

Similar letters of reference indicate corresponding parts wherever used.

This invention relates to galvanized or metal-coated screw-threaded pipe joints and couplings.

As heretofore manufactured, galvanized pipe and articles of kindred character as embody in their construction screw-threads have in their making been first galvanized and subsequently cut with threads, the effect of which has been that the threaded portions have been divested of the galvanic coating, with the result that when a portion of the thread is exposed, as in Fig. 3, it is subject to all the evil results common to ungalvanized screw-threads.

The object of my invention is the making of galvanized, coppered, or other metal-coated screw-threaded pipe joints and couplings evenly coated in all portions, to which end it consists, substantially, as follows: The pipe joint or coupling which is to be galvanized or metal-coated is first threaded in the usual manner, the thread-cutting being completed before the galvanizing or metal-coating process is commenced. The threaded pipe or socket is then subjected to the galvanizing or metal-coating operation until completely coated, after which the thread-cut portions are

burnished down even by any suitable device—as, for instance, by a burnisher of analogous construction and operation to the thread-cutting mechanism.

It will be understood that in the use of copper and some other metals it may not be necessary to burnish or recut the metal-coated thread, said thread being of sufficient evenness and smoothness to dispense with such burnishing or recutting process.

Such being my invention, it is obvious that this invention provides a joint of greater tightness than it has been practicable heretofore to produce, for the reason that an intermediate layer of soft metal is placed between the screw-threaded contact surfaces of the pipe joint or coupling, which forms a cushion or packing, with the result stated, and also that, all portions being alike galvanized, the pipe is not at any point exposed to corrosive or other such destructive influence, as has heretofore been the case.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

1. As a new article of manufacture, a screw-threaded pipe joint or coupling, the threaded surfaces of which are provided with a zinc or other metal coating to form a packing between the contact surfaces of said joint.

2. The herein-described process of making galvanized or metal-coated screw-threaded pipe joints or couplings, which consists in cutting the screw-thread upon such pipe or coupling, then galvanizing or metal-coating the cut screw, and finally burnishing or recutting the metal-coated threads, substantially as shown and described.

In testimony whereof I have hereunto signed my name this 3d day of February, 1879.

W. C. ALLISON.

In presence of—

J. BONSALE TAYLOR,
JOHN JOLLEY, Jr.