(No Model.) 2 Sheets—Sheet 1.

C. W. DWELLE.

WOODEN PIPE.

No. 494,996. Patented Apr. 4, 1893.

Fig. 1.

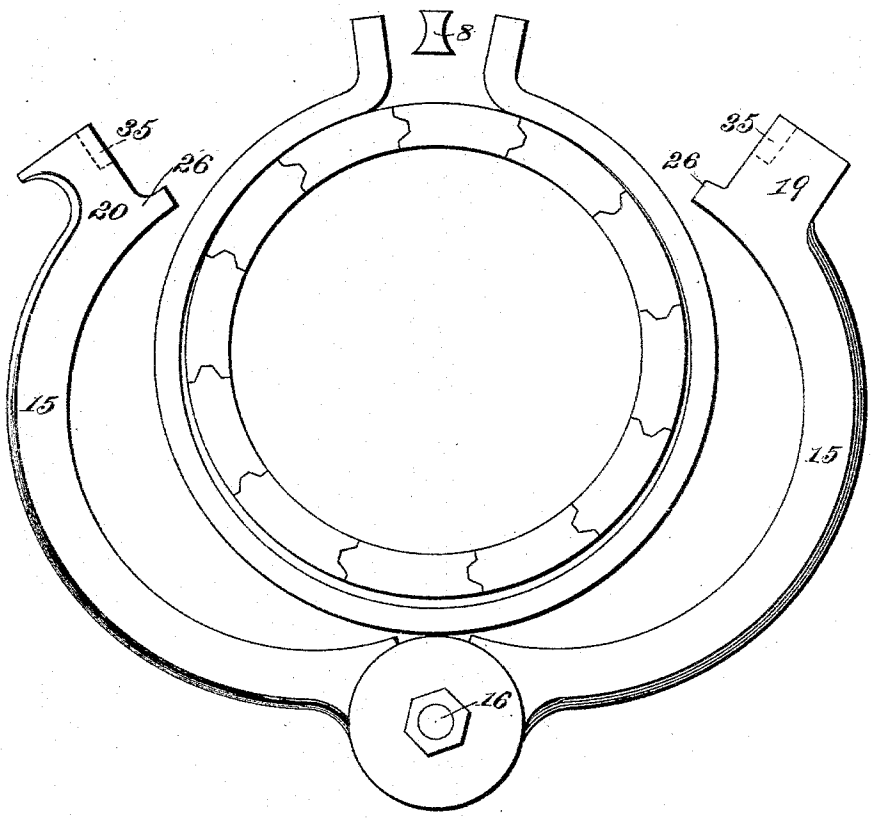
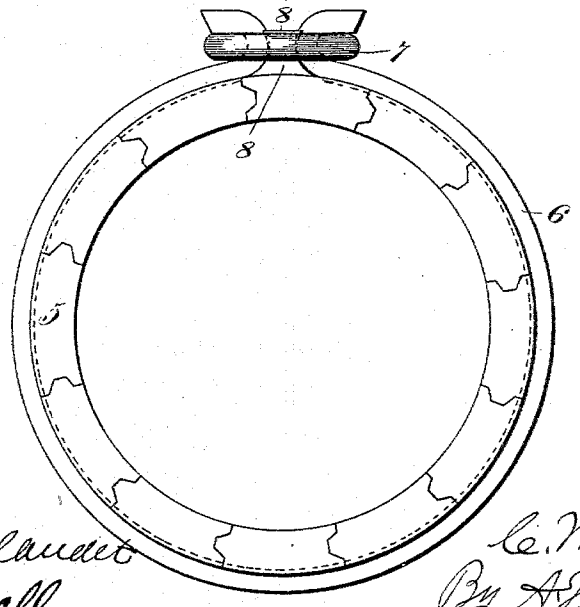


Fig. 2.



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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

(No Model.) 2 Sheets—Sheet 2.

C. W. DWELLE.

WOODEN PIPE.

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Fig. 7.

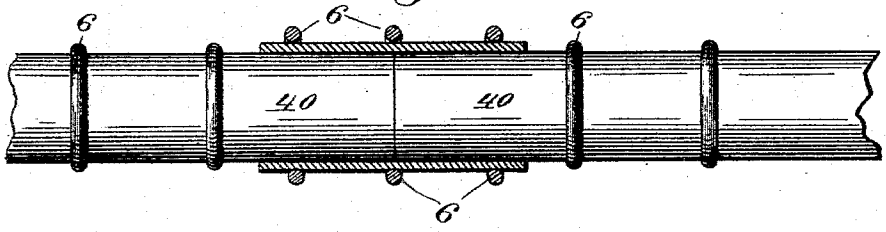


Fig. 4.

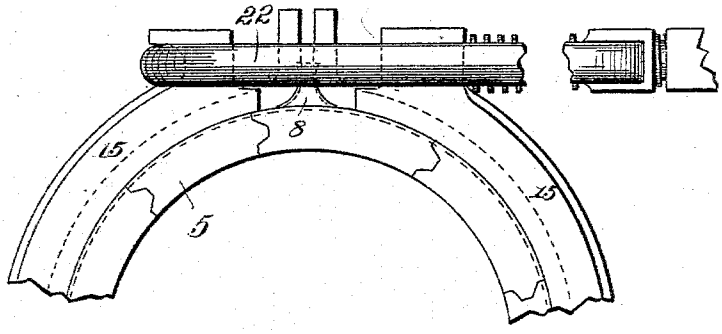


Fig. 3.

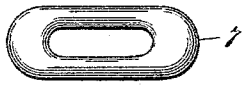


Fig. 5.

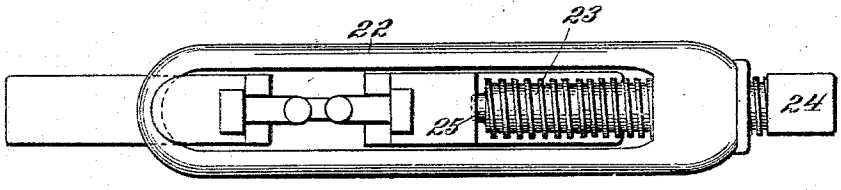


Fig. 6.

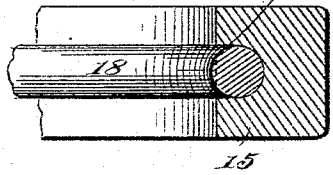
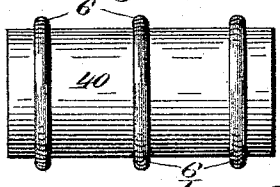


Fig. 8.



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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

CHARLES W. DWELLE, OF DENVER, COLORADO.

WOODEN PIPE.

SPECIFICATION forming part of Letters Patent No. 494,996, dated April 4, 1893.

Application filed August 17, 1891. Serial No. 402,935. (No model.)

To all whom it may concern:

Be it known that I, CHARLES W. DWELLE, a citizen of the United States of America, residing at Denver, in the county of Arapahoe and State of Colorado, have invented certain new and useful Improvements in Wooden Pipes and Apparatus for their Construction; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

My invention relates to improvements in wooden pipes, and the object of the invention is to provide a water carrying conduit which shall be of simple construction, economical in cost, reliable, durable and efficient in use.

The invention will be fully understood by reference to the accompanying drawings wherein is illustrated an embodiment thereof.

In the drawings, Figure 1 is an end view of the pipe showing the clamp in position preparatory to tightening the hoop; Fig. 2, an end view of the completed pipe. Fig. 3 shows the link employed in fastening the extremities of the hoop. Fig. 4 is a fragmentary end view of the pipe showing the clamp in place, the hoop having been drawn to position. Fig. 5 is a top view of the same; Fig. 6, a section taken through the hoop and surrounding clamp. Fig. 7 is an elevation of the completed pipe showing the coupling sleeve in section; Fig. 8, an elevation of this coupling sleeve showing the hoops in position.

In these views, similar reference characters indicating corresponding parts or elements of the mechanism, let the numeral 5 designate a cylindrical conduit or pipe built up of wooden staves, 6 a metal hoop or strap bolt surrounding the same, 7 a short link joining the extremities of the hoop and 8 a double-concave block or shoe adapted to fit between the convex extremities of the hoop formed by bending these extremities over the coupling link. The block 8 is placed in position and the bent extremities of the hoop drawn tightly thereagainst, its object being to prevent the bent ends of the bands from straightening under the strain, whereby the efficiency is greatly increased. The link 7 is now dropped to position and the extremities of the hoop bent outward or away from each other and downward upon the link. Two sections of the completed pipe are joined by the sleeve 40 shown in Fig. 1, which is itself built up of staves and surrounded by hoops 6.

Having thus described my invention, what I claim is—

1. A wooden pipe surrounded by metal hoops having their extremities united by a coupling link in combination with a shoe intermediately located and fashioned to fit the adjacent convex surfaces of the hoop extremities which are bent outward over the link, substantially as described.

2. The combination of a coupling link, a metallic hoop or band having its extremities bent outwardly over the link and a bearing block or shoe located between and engaging said bent extremities and the surface of the pipe and affording a support for the bending of said extremities and a bearing between said extremities for the pipe, substantially as described.

3. The combination of a sectional wooden pipe and sleeves or couplings receiving the extremities of the pipe sections, said pipe being built of staves and provided with metallic bands surrounding said sleeves for the purpose of connecting the said sections, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

CHARLES W. DWELLE.

Witnesses:
WM. MCCONNELL,
G. J. ROLLANDET.