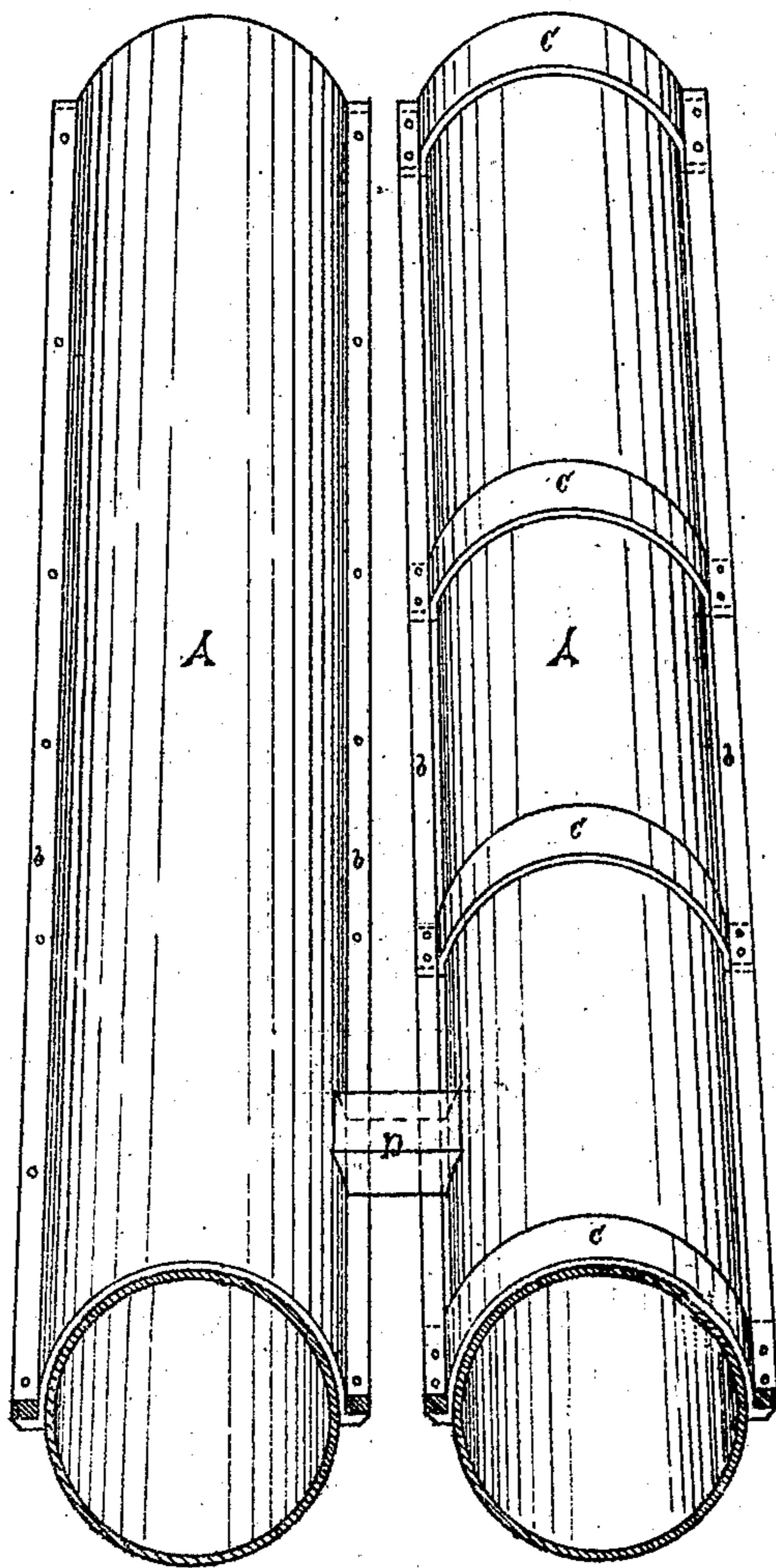


WM DILLON'S
BOILER TILE SUPPORT.

116693

PATENTED JUL 4 1871



WITNESSES.

S. M. Howard
Wm Erskine

INVENTOR.

William Dillon
Per J. B. McLeese
Attorney.

UNITED STATES PATENT OFFICE.

WILLIAM DILLON, OF WHEELING, WEST VIRGINIA.

IMPROVEMENT IN BOILER-TILE SUPPORTS.

Specification forming part of Letters Patent No. 116,693, dated July 4, 1871.

To all whom it may concern:

Be it known that I, WILLIAM DILLON, of the city of Wheeling, in the county of Ohio and the State of West Virginia, have invented a new and useful Improvement in Boiler-Tile Support, of which the following is a specification, reference being had to the accompanying drawing and the letters of reference thereon.

My invention relates to the supporting of the tiles or brick at their base, usually built in between steam-boilers, when they are horizontally set up for use on steam-boats and elsewhere.

Heretofore, in thus setting up boilers, it has been the practice to place them from four to six inches apart, and to close the space above the lines of their diameters between them by building therein tiles or brick made to fit the annular shape of the boilers, the former finding their support upon the contiguous sides of the boilers, the necessary result of which has been to cause an unequal expansion of the boilers, thereby permanently depriving them of their cylindrical form, and producing leakage therein.

To avoid these results is the object of my invention; which consists in supporting at their base the tiles or brick built in between the boilers, as before stated, by ribs or plates made fast or secured to the boilers, instead of supporting the same by the contiguous sides of the boilers, there being for that purpose a rib or plate at the proper place on each adjacent boiler. These ribs may be either

riveted to the boilers or made fast to stirrups or saddle-plates, which extend over the top portion of the boilers, as shown in the drawing, and which latter manner of attaching them to the boiler I think the best.

My invention prevents the unequal expansions of the boilers, because the weight of the tiles is supported by and distributed over the boilers, while the former are directly subject to the expansions and contractions of the boilers, whereas by the old way of supporting the tiles they act as a fixed wedge between the boilers, and inflexible to their expansion, thereby causing a greater expansion or throw of metal on their top and bottom portions, and which destroys their annular form and leads to their leakage.

The drawing is a view of two boilers in position, showing the tile-supports and a manner of their attachment to the boilers.

A, boilers; *b*, ribs or plates to support the tiles; *c*, stirrups to which the ribs are attached; D, tiles built in on supports.

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

The boiler-tile supports *b b*, substantially as and for the purposes herein set forth.

WILLIAM DILLON.

Witnesses:

J. BOONE MCLURE,
S. M. HOWARD.