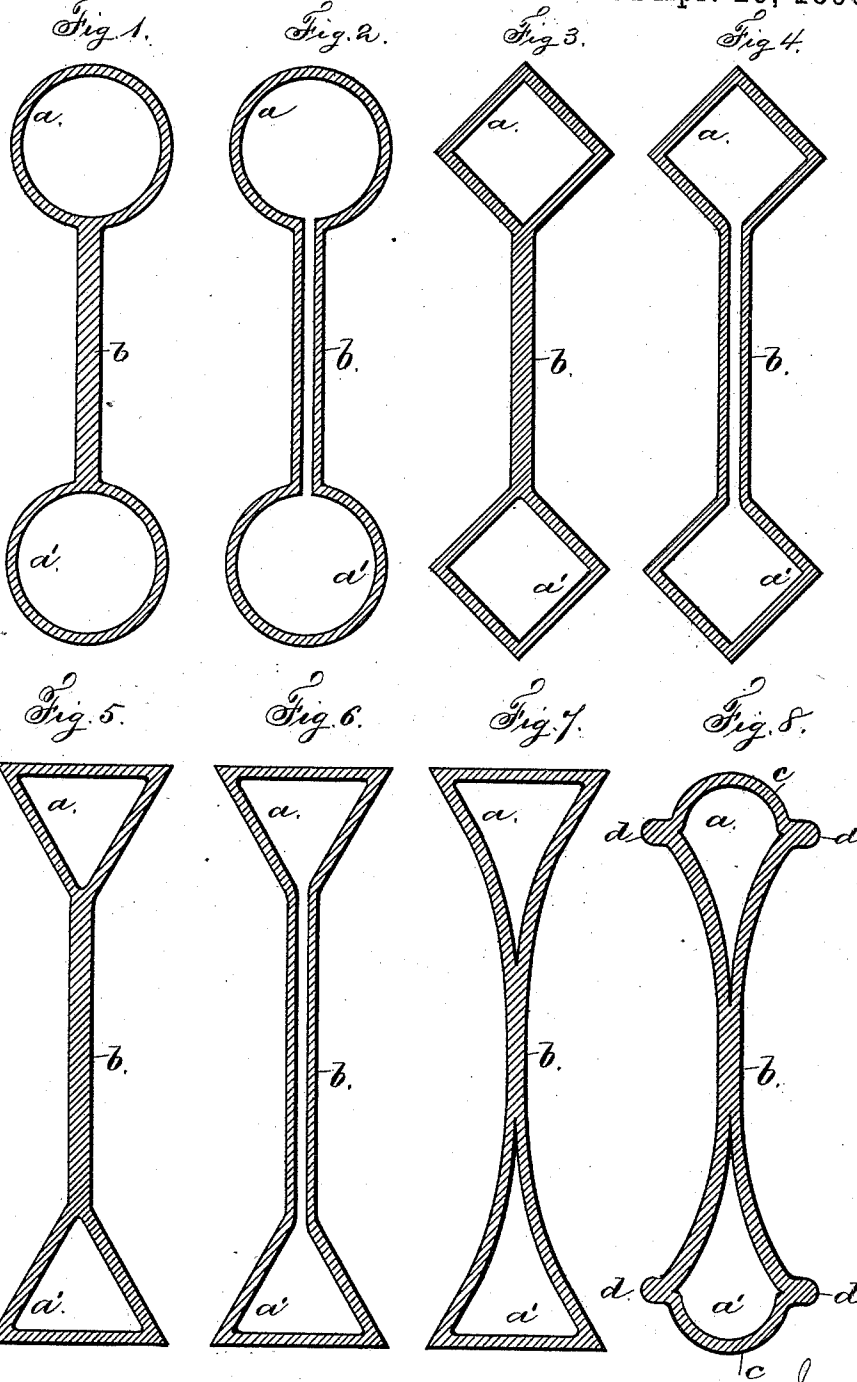


(No Model.)

G. W. DITHRIDGE.
BEAM OR SILL.

No. 426,558.

Patented Apr. 29, 1890.



Witnesses—
Harold Serrell
Chas. H. Smith

Inventor
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UNITED STATES PATENT OFFICE.

GEORGE W. DITHRIDGE, OF NEW YORK, N. Y.

BEAM OR SILL.

SPECIFICATION forming part of Letters Patent No. 426,558, dated April 29, 1890.

Application filed August 28, 1889. Serial No. 322,176. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. DITHRIDGE, of the city, county, and State of New York, have invented an Improvement in Beams or Sills, of which the following is a specification.

Beams or sills for railway-cars have been formed of tubes connected together by stays or straps, and beams for buildings have heretofore been made of angle or T-shaped iron. My invention is a new article of manufacture; and it consists of a beam or sill of metal with tubular edges and a connecting-plate, such tubular edges and connecting-plate being integral with each other, of one piece of metal.

In the drawings I have represented my invention by cross-sectional views, Figures 1 to 8, inclusive.

Fig. 1 represents a beam or sill having tubular edges *a a'*, that are round, with a single connecting-plate *b* formed integral therewith; and Fig. 2 is a similar view, except that the connecting-plate *b* is in two parts. Fig. 3 represents a beam or sill in which the tubular edges *a a'* are square in section, the connecting-plate *b* being in one piece, and in Fig. 4 the connecting-plate is divided or in two parts. Fig. 5 represents a beam or sill having tubular edges *a a'*, that are triangular,

with a single connecting-plate *b*. Fig. 6 is a similar view, wherein the connecting-plate *b* is divided or in two parts; and Fig. 7 is a similar view to that shown in Figs. 5 and 6, except that the triangular edges *a a'* are curved toward the central plate *b*. Fig. 8 represents a modified form of beam or sill, wherein the outer surfaces of the tubular edges *a a'* are round at *c* and have edge ribs at *d*, and are tapering or curved toward the central connecting-plate *b*.

I would remark that the tubular edges, instead of being round, square, or triangular, might be hexagonal or of any other desired shape, the essential feature of my invention being the beam or sill with tubular edges and a connecting-plate formed integral therewith.

I claim as my invention—

As a new article of manufacture, a beam or sill having tubular edges and one or more connecting-plates that are integral therewith, substantially as set forth.

Signed by me this 22d day of August, A. D. 1889.

GEO. W. DITHRIDGE.

Witnesses:

GEO. T. PINCKNEY,
WILLIAM G. MOTT.