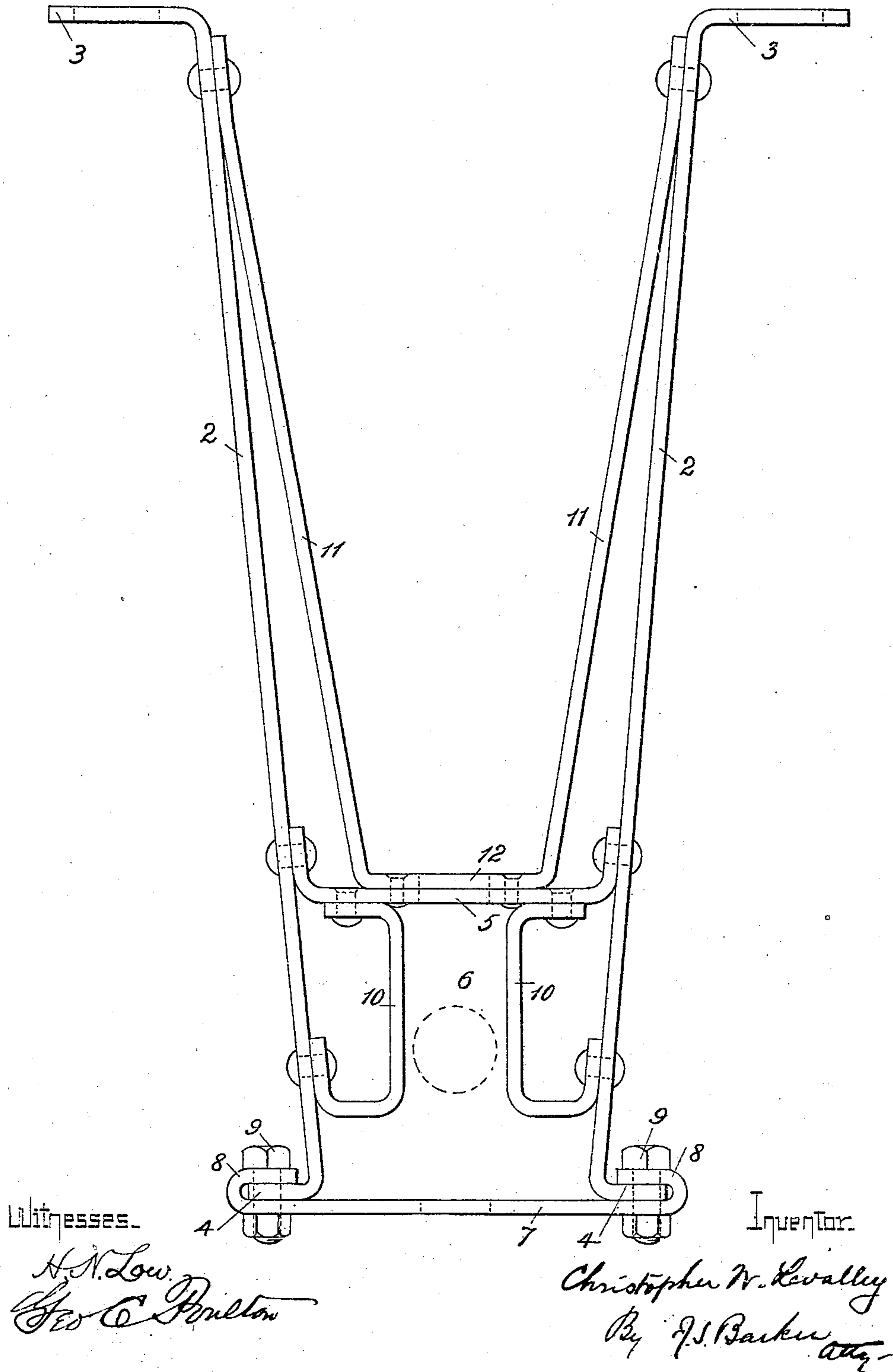


C. W. LEVALLEY.
SHAFT HANGER.
APPLICATION FILED AUG. 21, 1906.

908,684.

Patented Jan. 5, 1909.



UNITED STATES PATENT OFFICE.

CHRISTOPHER W. LEVALLEY, OF MILWAUKEE, WISCONSIN.

SHAFT-HANGER.

No. 908,684.

Specification of Letters Patent.

Patented Jan. 5, 1909.

Application filed August 21, 1906. Serial No. 331,453.

To all whom it may concern:

Be it known that I, CHRISTOPHER W. LEVALLEY, a citizen of the United States, residing at Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented certain new and useful Improvements in Shaft-Hangers, of which the following is a specification.

This invention relates to hangers or supports for line-shafting, and has for its object to produce an article of this character of very simple construction, possessing great strength and rigidity for the amount of material entering into its construction, and all the parts of which may be formed from material that may always be found upon the market and that may be easily fabricated, such as bar steel.

In the accompanying drawings I have illustrated my improvements as applied to a ceiling or overhead shaft-hanger, though it is apparent that by inverting the parts shown a floor support or bracket will be produced; so that, therefore, my invention is not limited in its useful applications to the exact construction shown.

The drawing is an elevation or side view of a shaft-hanger embodying my improvements.

All of the parts from which the hanger is composed are shaped from bar metal, preferably steel, and, except as hereinafter stated, may be either riveted or bolted together.

The side members, 2, are duplicates of each other, each being formed with a foot, 3, for attachment, and at its opposite end with an out-turned lip or flange, 4. The upper or intermediate cross member, 5, which is arranged to carry one set of the screw adjusting devices for the shaft boxing, extends across between the side bars to which it is secured, at such distance back from the outer ends thereof as to leave the space, 6, for the shaft and its bearing between it and the other or lower cross bar, 7. The end portions of the cross bar, 7, are folded back upon themselves, as indicated at 8, 8, so that they may be caused to embrace the out-turned ends, 4, of the side bars, to which they are secured by the bolts, 9. If the bolts be removed the outer cross bar may be taken away to open the space, 6, for the insertion or removal of the shaft.

10, 10 indicate the guides for the bearing or boxing for the shaft. They are secured,

by preference, to the intermediate cross member and to the side members.

In order to strengthen and stiffen the hanger, especially so as to enable it to resist lateral strains, I brace the side members, making each of them, in effect, of a truss-like construction. This I preferably accomplish by employing a brace member of substantially U-shape arranged between the side members, its ends being secured to the latter near their attached ends or feet and its middle portion or base attached to the intermediate cross bar 5. The legs, 11, of this brace member constitute the tension members of the trussed side bars, while the middle part, 12, that unites the legs lies flat upon the cross bar 5. It is evident that the making of the two brace members, 11, from an integral piece of metal, instead of forming them separately, is a mere detail of construction and convenience and is not essential to this feature of my invention.

The method of bracing the hanger herein illustrated enables the construction of a very strong and laterally stiff shaft-hanger entirely from bar metal, the transverse or lateral dimensions of which are small, as the brace members are all located inside the side bars of the hanger. This is especially advantageous where the space for the placing of the hanger is restricted.

I do not in this application claim the guides for the shaft bearing or boxing, designated 10 on the drawing, when combined with the other parts of the hanger as herein described and illustrated, as this feature constitutes the basis of claims appearing in my application No. 318,508, filed May 24, 1906.

What I claim is:

1. A shaft-hanger the side members of which are turned outward to form short lips or flanges, a cross member having its ends doubled back upon themselves whereby they are arranged to embrace the said lips or flanges of the side members, and bolts for uniting the side and cross members, substantially as set forth.

2. A shaft hanger having side members formed of bar metal, the lower or free ends of which are turned outward to form lips or flanges, a cross member arranged to engage with the said outturned flanges or lips of the side members, and means for uniting the said side and cross members, substantially as set forth.

3. A shaft-hanger having the side mem-

bers, a cross member carrying part of the supporting devices for the shaft bearing and situated between the side members and located in a plane intermediate between their ends, and a brace of substantially U-shape for stiffening the hanger to resist lateral strains, the outer ends of the legs of which are secured to the side members near the attached ends thereof, and the middle portion of which is

secured to the said intermediate cross member, substantially as set forth. 10

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

CHRISTOPHER W. LEVALLEY.

Witnesses:

H. H. SARGENT,

VLASTA I. KLOFAUDA.