

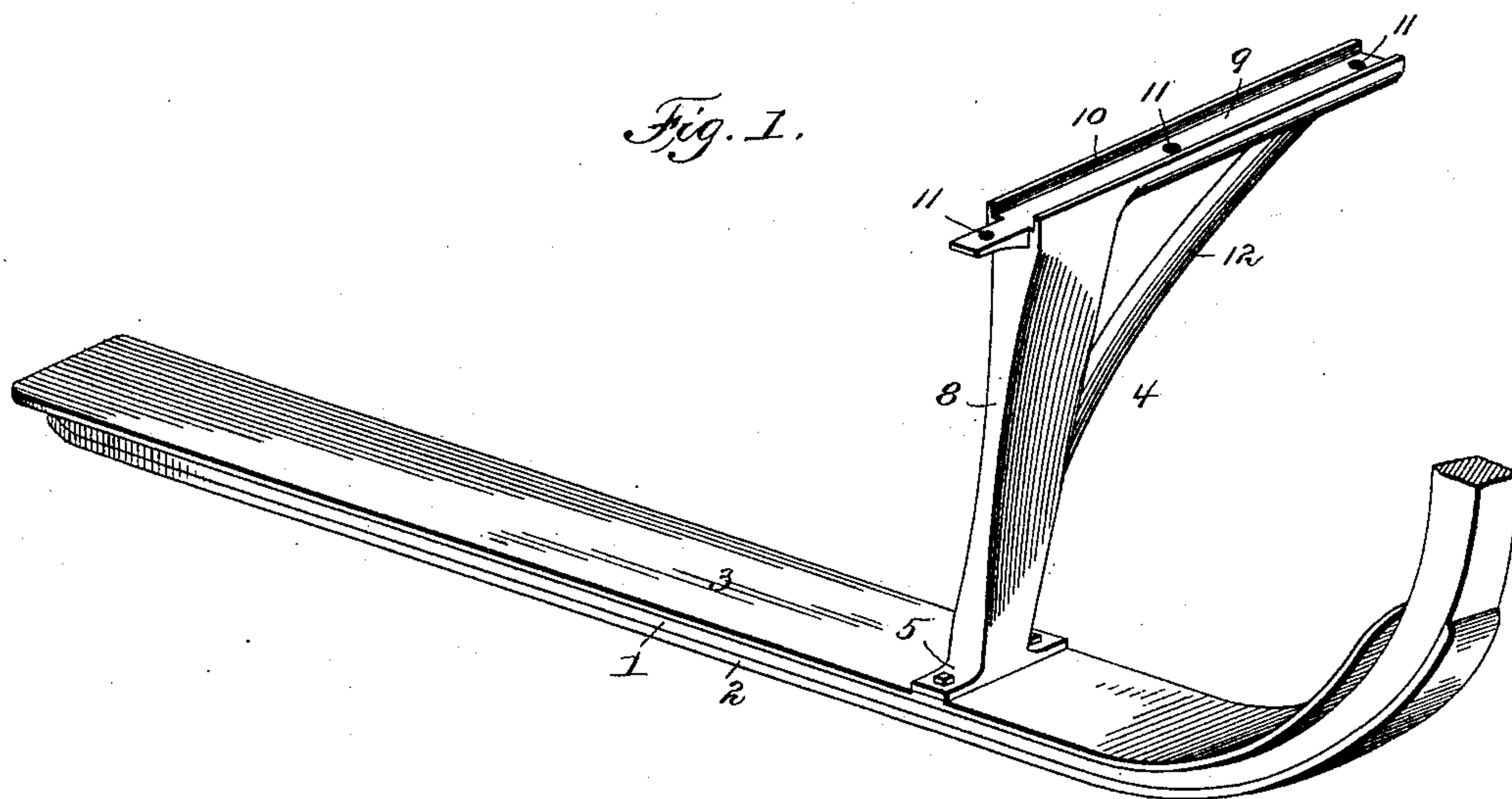
(No Model.)

W. S. EVANS.  
SLED.

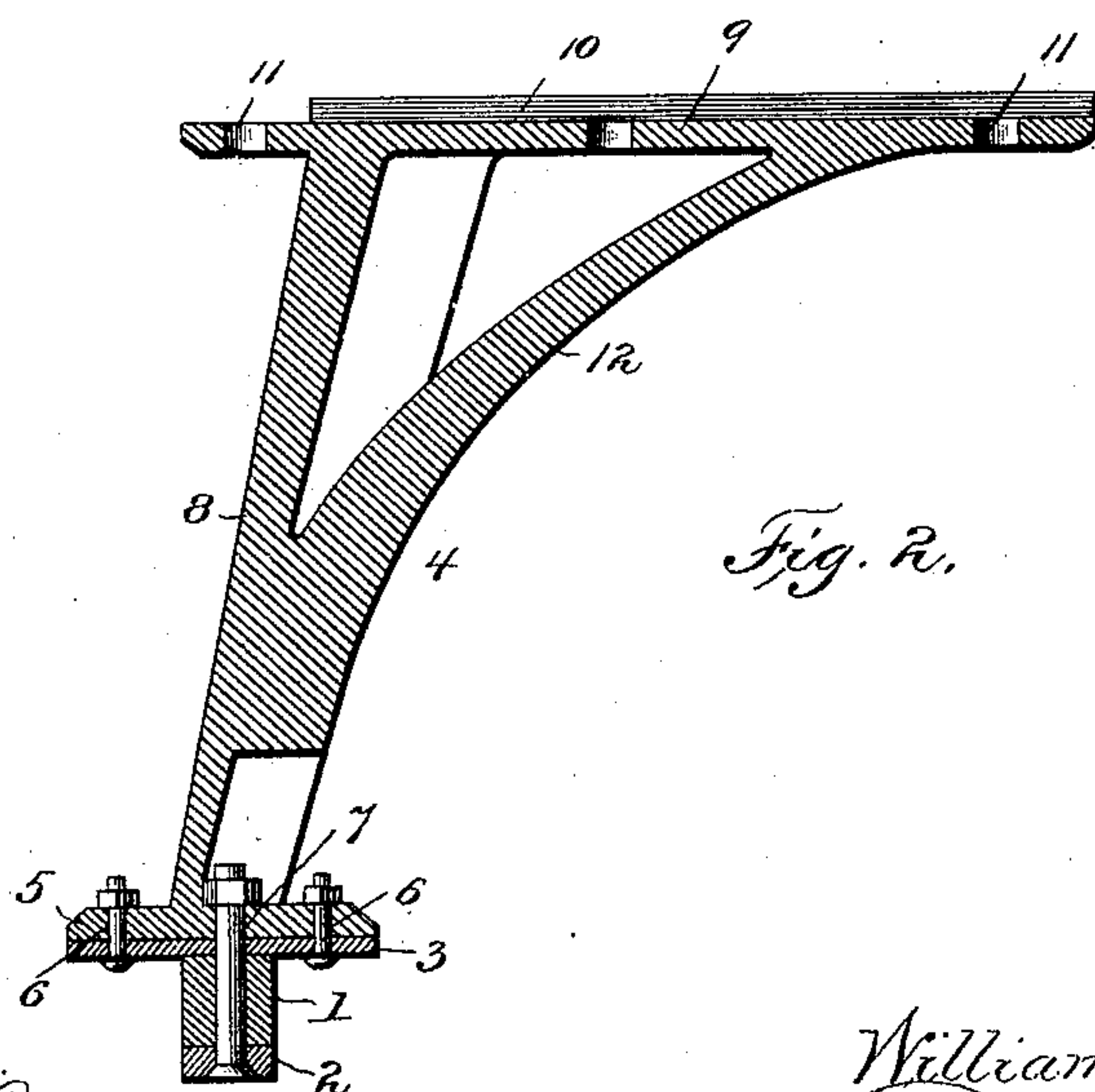
No. 603,758.

Patented May 10, 1898.

*Fig. 1.*



*Fig. 2.*



Witnesses  
John Enders, Jr.  
Royal E. Burnham,

Inventor  
William S. Evans,  
by  
Edward Stearns, Attorney

# UNITED STATES PATENT OFFICE.

WILLIAM SMITH EVANS, OF POINT ROCK, NEW YORK.

## SLED.

SPECIFICATION forming part of Letters Patent No. 603,758, dated May 10, 1898.

Application filed June 1, 1897. Serial No. 639,077. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM SMITH EVANS, a citizen of the United States, residing at Point Rock, in the county of Oneida and State  
5 of New York, have invented certain new and useful Improvements in Sleds, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to sleds and sleighs,  
10 and more particularly to a snow shoe or guard for the runners thereof to prevent the runners proper from cutting through light snows, and is likewise a knee construction for the sled, adapted to materially aid in the opera-  
15 tion of the snow-shoe proper.

I will first describe my invention with the aid of the accompanying drawings, in which—

Figure 1 is a perspective view of a cutter-runner with my improved snow-shoe and knee  
20 in position. Fig. 2 is a sectional view through the mid portion of the knee.

In both figures the same numeral indicates the same part.

1 is the bent wood runner of a cutter or  
25 sleigh, with the steel-iron 2 on the bottom thereof and the broad snow-shoe 3, preferably of steel-plate, on the top. The knee 4, preferably a single hollow body-casting, has at

one end the flange-plate 5, with holes 6 for  
bolting to the snow-shoe and a midway hole 30  
7 for bolting the snow-shoe, wood runner, and steel runner all together. The standard 8 of the knee at its remaining end has the extended flange 9, with channel 10, adapted to receive the floor-beam of the cutter and to be bolted  
35 thereto through holes 11. A bracket-arm 12 gives additional strength.

Having described my invention, what I desire to secure in my Letters Patent and claim  
40 is—

The combination with a sleigh, of the runners thereof, the metal shoes upon the bottom thereof, the snow-shoes resting on the top of the said runners, and the integral knees of metal, comprising each a standard, a flange  
45 at the bottom thereof bolted to the snow-shoe and also to the runner and to the runner-shoe, and a transverse channeled flange at the top of the said standard, and the bracket, all substantially as described.  
50

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

WILLIAM SMITH EVANS.

Witnesses:

W. E. CRAVER,  
SOLOMON BUTLER.