

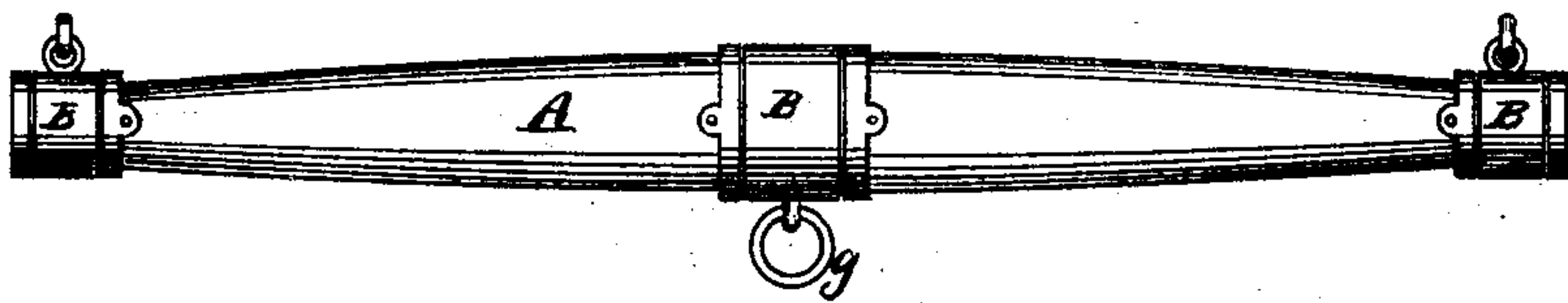
G. C. McMULLEN.

Neck-Yokes.

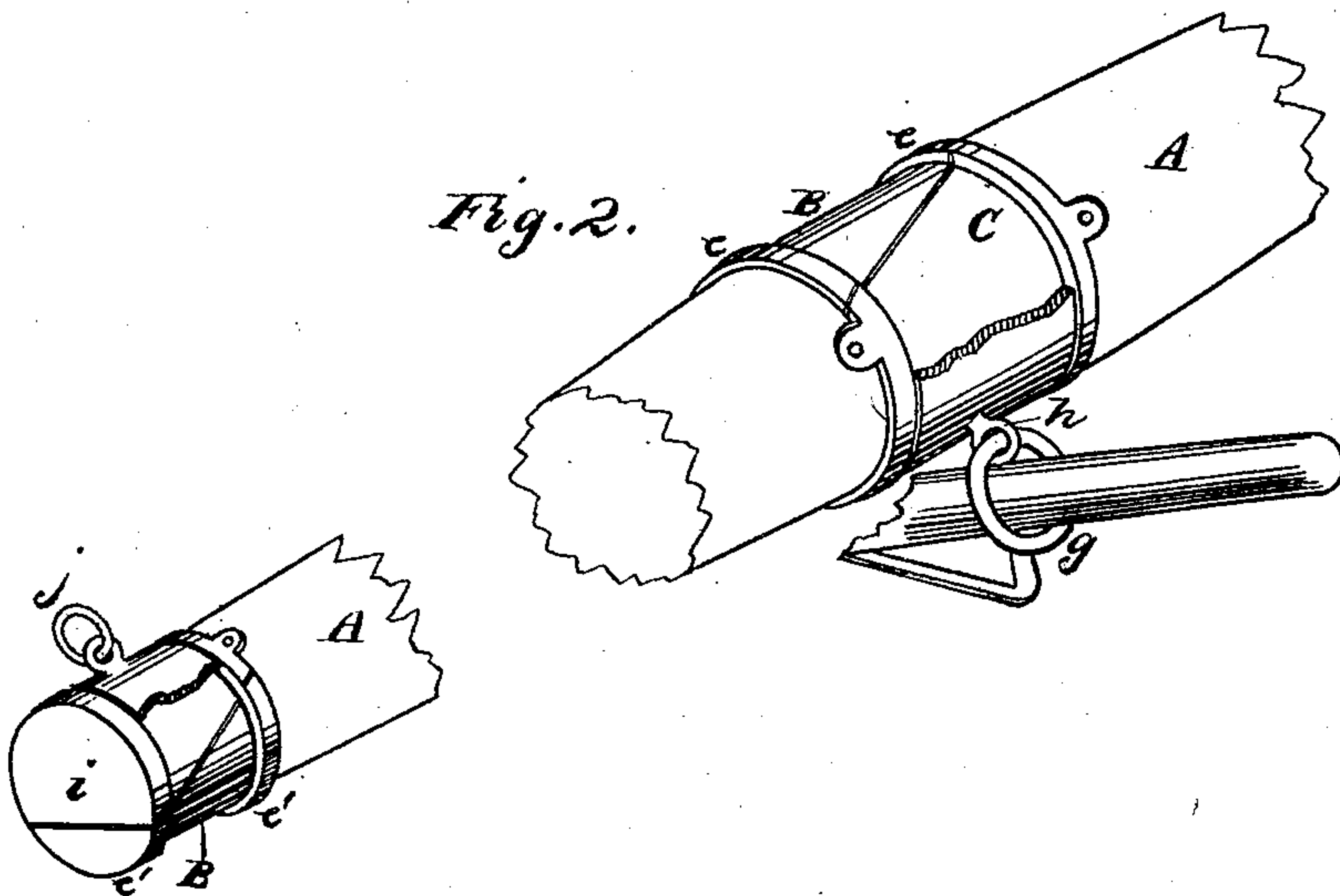
No. 151,790.

Patented June 9, 1874.

*Fig. 1.*



*Fig. 2.*



Witnesses

*Geo. H. Strong*  
*C. M. Richardson*

Inventor

*Geo. C. McMullen*  
*By his Atty's*  
*Dewey & Co.*

# UNITED STATES PATENT OFFICE.

GEORGE C. McMULLEN, OF SUISIN, CALIFORNIA.

## IMPROVEMENT IN NECK-YOKES.

Specification forming part of Letters Patent No. 151,790, dated June 9, 1874; application filed April 17, 1874.

*To all whom it may concern:*

Be it known that I, GEORGE C. McMULLEN, of Suisin, Solano county, State of California, have invented an Improved Neck-Yoke; and I do hereby declare the following description and accompanying drawings are sufficient to enable any person skilled in the art or science to which it most nearly appertains to make and use my said invention or improvement without further invention or experiment.

My improvement consists in the employment of loosely-revolving bands upon the ends and middle of a neck-yoke, to which the attachment of the pole and hame or hold-back strap is made.

Referring to the drawings accompanying this specification, and forming a part of the same, Figure 1 is a side view. Fig. 2 is a perspective view.

A is the neck-yoke. Upon the middle and both ends of this neck-yoke I secure a loosely-revolving band, B, instead of the permanent band heretofore used.

In order to apply the middle band to the neck-yoke, I first construct a band, C, in two parts, each part being a divided or parti band divided in angular line, as shown at Fig. 2, so that when the two semi-rings are placed together they will form a single complete band. This two-part band is wider than the band B, and has a ledge or raised rim, *e*, upon both of its ends, so that the band B will fit loosely inside of the ledges.

The parts of the band C may be so constructed with angular edges that one of the parts will be much smaller than the other part, and one end much narrower than the opposite end, to facilitate the putting on of the loose ring over the ledge or end of the parts.

The loose ring is first slipped over the parts of the divided band, so as to rest between the

flanges, and the divided ring is then permanently secured upon the middle of the neck-yoke, so as to leave the band or ring B loose upon it. The ring *g*, through which the end of the wagon-pole goes, is secured to the loose band B by an eye, *h*.

The end bands of the neck-yoke are constructed and applied in the same manner, with the exception that, instead of a divided band for holding the loose ring, I employ a divided cap, *i*, having ledges or raised rims *e'*, between which the loose bands are secured.

The rings *j*, through which the hame or hold-back straps pass, are secured to the loose rings, thus providing loose or swivel-band attachments.

Various arrangements of securing and adapting the loose rings upon the neck-yoke could be devised in an equivalent way; but these my invention is intended to cover.

By this means I render the neck-yoke much more comfortable and convenient than formerly.

The loose bands adapt themselves freely to the position of the neck-yoke, and, consequently, lessen the strain upon it. The bands can be easily removed should the neck-yoke break, and be replaced on a new stick.

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

The neck-yoke A, having the loosely-revolving bands B, held in place by the permanently-secured bands C with flanges *e*, substantially as and for the purpose described.

In witness whereof I hereunto set my hand and seal.

GEORGE CRAWFORD McMULLEN. [L. S.]

Witnesses:

THOS. H. WHITE,  
L. BABERNATTIE.