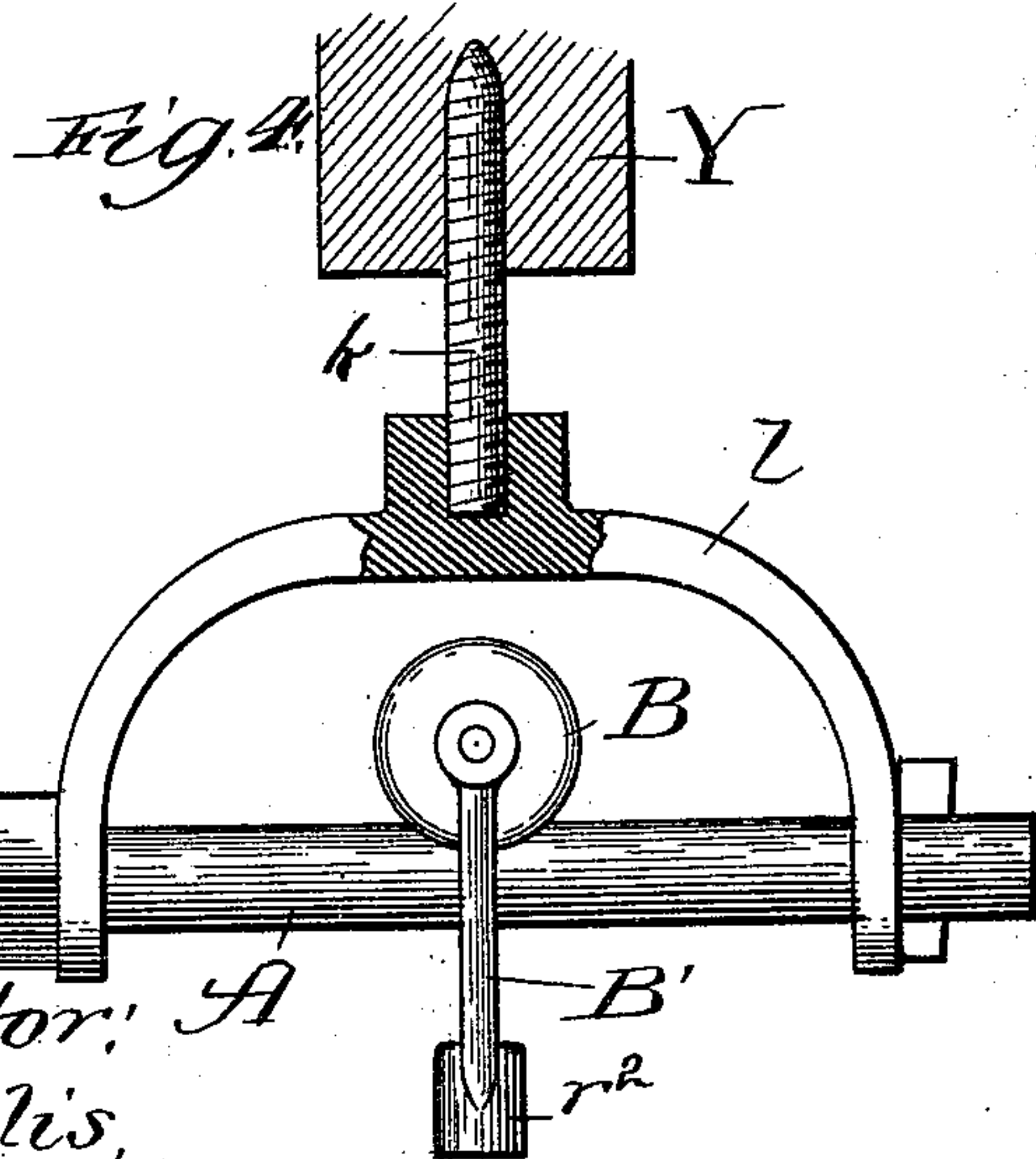
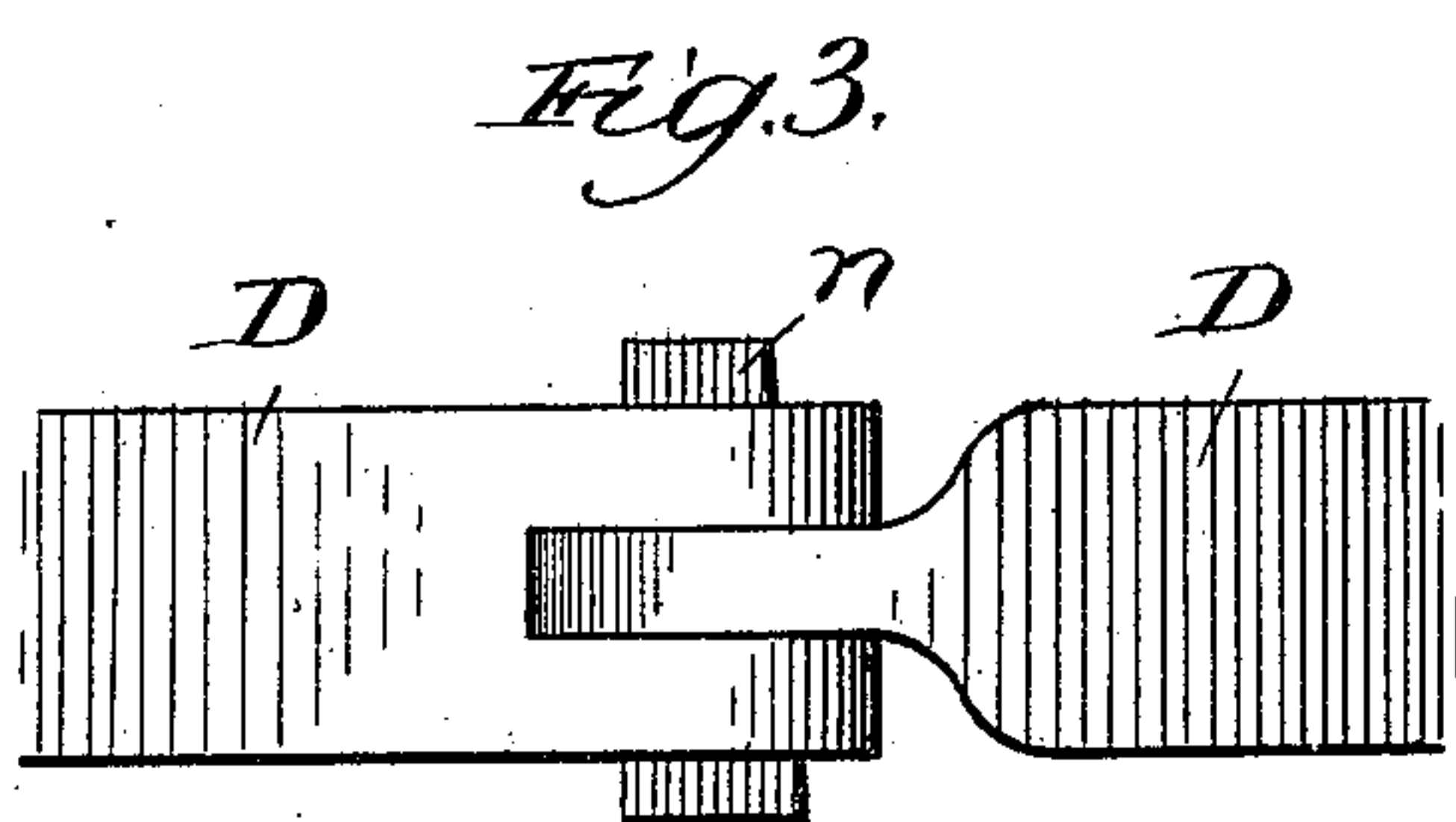
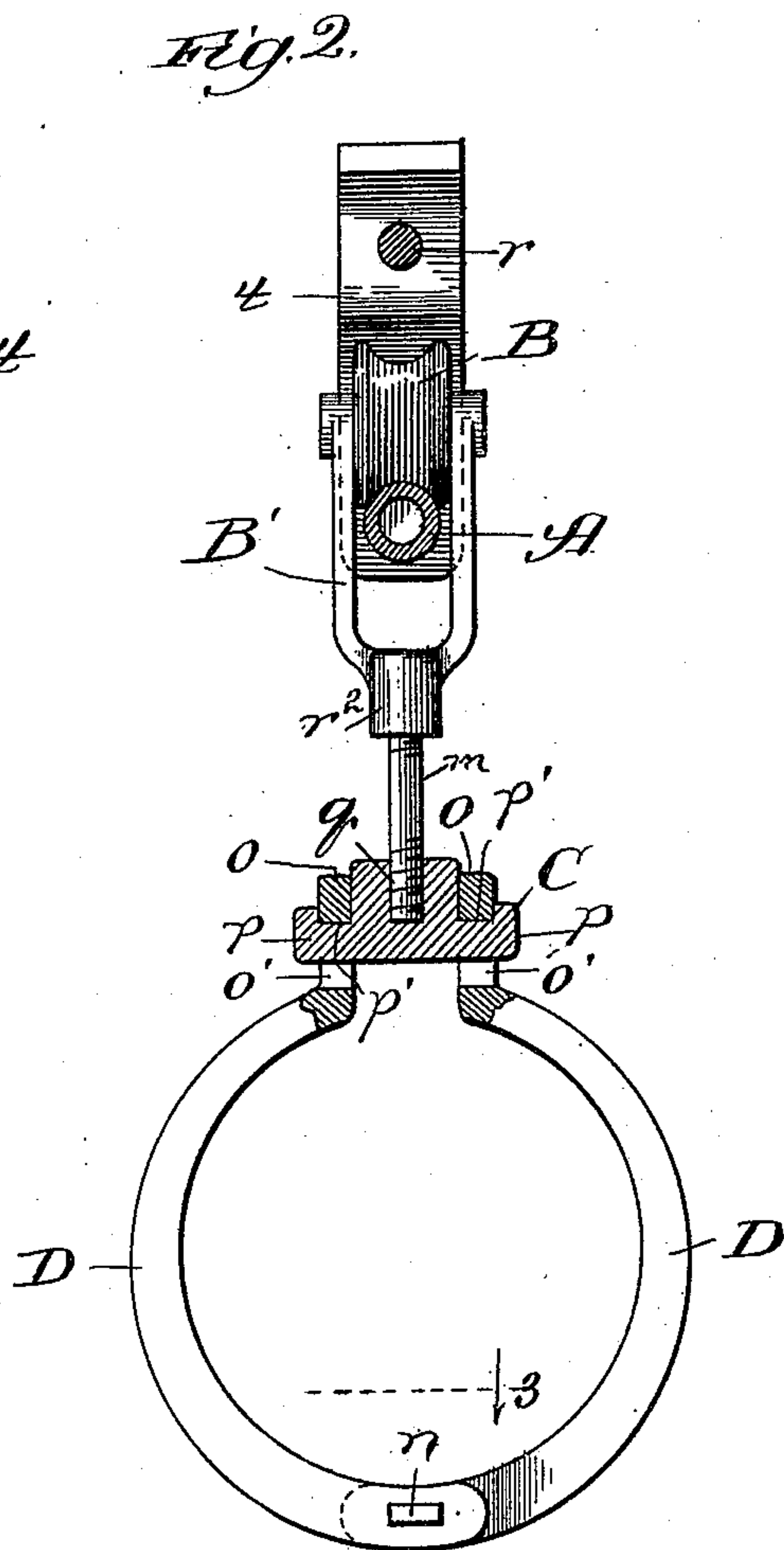
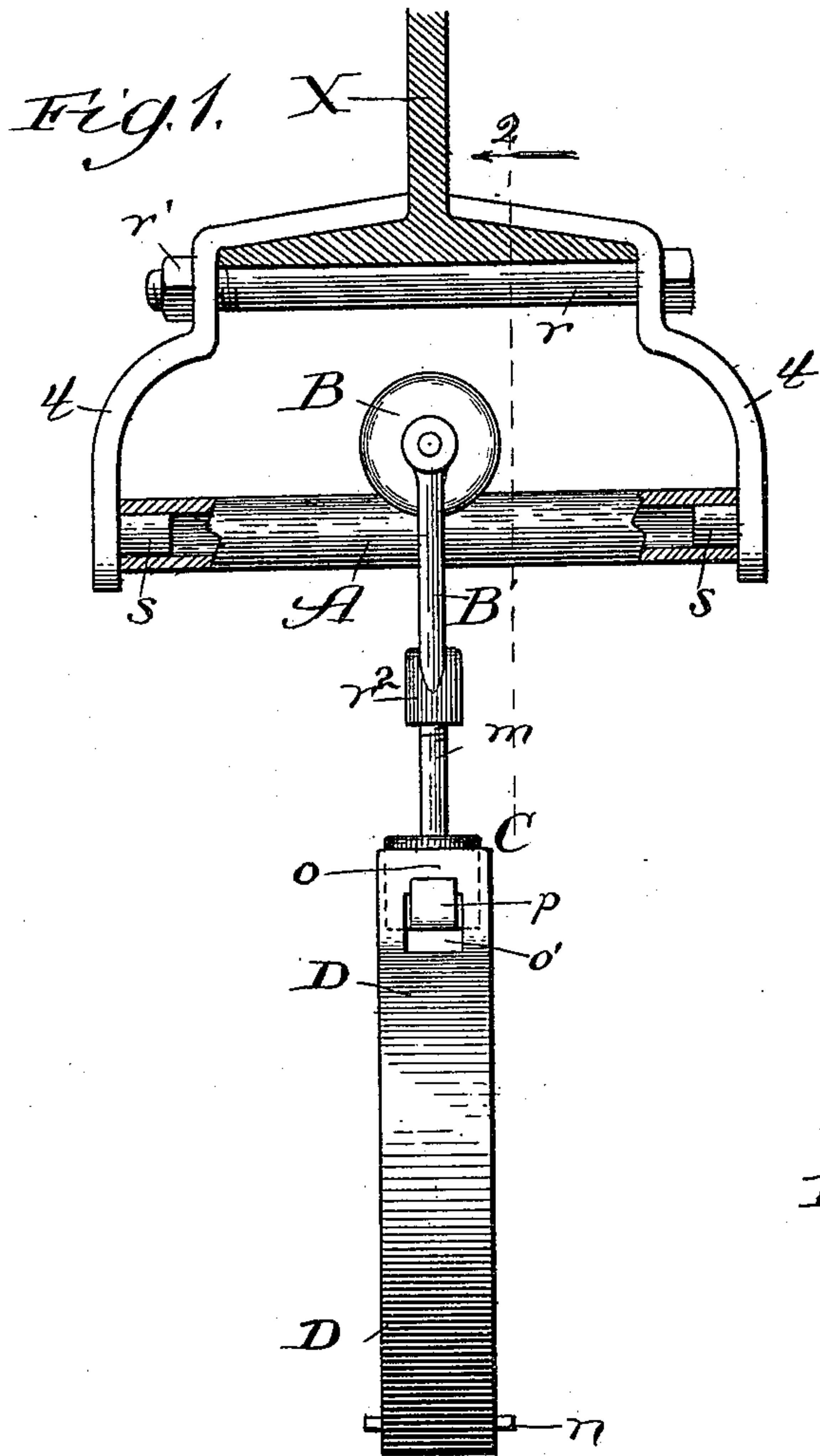


(No Model.)

J. COLLIS.
PIPE HANGER.

No. 471,348.

Patented Mar. 22, 1892.



Witnesses:

Chas. E. Gaylord
Clifford W. White

Inventor: *A*
John Collis,
By *Dyrenforth & Dyrenforth*
Attys

UNITED STATES PATENT OFFICE.

JOHN COLLIS, OF DES MOINES, IOWA.

PIPE-HANGER.

SPECIFICATION forming part of Letters Patent No. 471,348, dated March 22, 1892.

Application filed December 15, 1891. Serial No. 415,153. (No model.)

To all whom it may concern:

Be it known that I, JOHN COLLIS, a citizen of the United States, residing at Des Moines, in the county of Polk and State of Iowa, have
5 invented a new and useful Improvement in Pipe-Hangers, of which the following is a specification.

My invention relates to an improvement in pipe-hangers for use particularly in build-
10 ings for suspending horizontal steam or other pipes under ceiling-beams.

My object is to provide a pipe-hanger of an improved construction which will permit the
15 pipes to expand and contract longitudinally without material strain upon the hanger.

In the drawings, Figure 1 is a broken view in elevation showing my improved hanger in operative position upon a metal ceiling-beam, parts of the hanger being shown in section
20 for the purpose of illustration. Fig. 2 is a section on line 2 of Fig. 1 and viewed in the direction of the arrow; Fig. 3, a broken plan view taken from line 3 of Fig. 2, looking downward; and Fig. 4, a view, partly sectional, of
25 the upper portion of my improved hanger, showing the fastening means employed for securing it to a wooden ceiling-beam.

A is a single track for the grooved wheel B. In the construction shown in Fig. 1 the track
30 A is supported between side bars *t t*, which are shaped, as shown, to extend at their upper end portions along the flange of an I-beam X, and toward their lower end portions they are flared outward and provided with
35 inwardly-projecting lugs *s*. The track A is a hollow tube adapted at its ends to receive the lugs *s*. Just below the plane of the under surface of the I-beam X the side bars *t* are provided with openings to receive a tie-
40 bolt *r*, carrying a nut *r'*. The grooved wheel B is provided with a shaft, which at its opposite ends is engaged by and affords a bearing for a stirrup B'. The stirrup B' extends below the track A and terminates in a threaded
45 socket *r*².

C is a yoke provided in its upper face with a threaded socket *q* and having ears or lugs
50 *p*, recessed in their upper sides to produce sockets *p'*.

D D are the two side pieces or halves of a stirrup, curved throughout nearly its entire extent. The upper ends of the side pieces D

are flanged to produce flat opposing extensions *o o*, provided with openings *o'*, adapted to slip over the ears *p* and rest in the sockets
55 *p'*. The lower end of one of the side pieces D is bifurcated, as shown in Fig. 3, to receive the lower flattened end of the other side piece D. The two side pieces are fastened together
60 at their lower intermeshing ends by a cotter *n*, which passes through coincident openings in the said side pieces. Screwed at opposite ends respectively into the sockets *r*² and *q* is
is a rod *m*.

The pipe to be supported extends through
65 the stirrup D in a line parallel with the track A. Longitudinal expansion or contraction of the pipe will cause the parts below the track A to move back and forth upon the wheel B,
and thus prevent material friction. 70

In the construction shown in Fig. 4 the track A consists of a bolt passing through openings in the lower end portions of a stirrup-piece *l*. At the center of its upper side
75 the stirrup *l* is provided with a lag-screw *k*, at which it may be secured to a wooden beam Y.

The distance of the suspended pipe from the supporting-beam X or Y may be regulated by providing a longer or shorter con-
80 necting-rod *m*.

My improved hanger constructed as described prevents injury to the hanger from the longitudinal movement of the pipe as it expands and contracts, and it furthermore
85 affords a strong, durable, and comparatively inexpensive device for its purpose.

While the construction shown and described is the one I prefer to employ, it may be modified in the matter of details of construction
90 without departing from the spirit of my invention.

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

1. In a pipe-hanger, the combination of a
95 track and means for attaching it to an overhead support, a wheel mounted upon the track to travel thereon, and a stirrup suspended from the wheel, carrying the pipe-engaging portion of the hanger, substantially as de-
100 scribed.

2. In a pipe-hanger, the combination of a track and means for attaching it to an overhead support, a wheel mounted upon the track

to travel thereon, a stirrup suspended from the wheel and provided with a socket, and a rod fastened to the stirrup at said socket and carrying the pipe-engaging portion of the
5 hanger, substantially as described.

3. In a pipe-hanger, the combination, with the pipe-engaging portion thereof, of a track, a wheel mounted upon the track to travel thereon, from which the said pipe-engaging

portion is suspended, and means for securing to the track to the flanges of a beam, comprising the side bars *t*, tie-bolt *r*, and projections *s*, engaging the opposite ends of the track, substantially as described.

JOHN COLLIS.

In presence of—

A. S. PORTER,
L. I. SILVANA.