

F. MOSSBERG.
LOOM BEAM.

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1,044,685.

Patented Nov. 19, 1912.

2 SHEETS-SHEET 1.

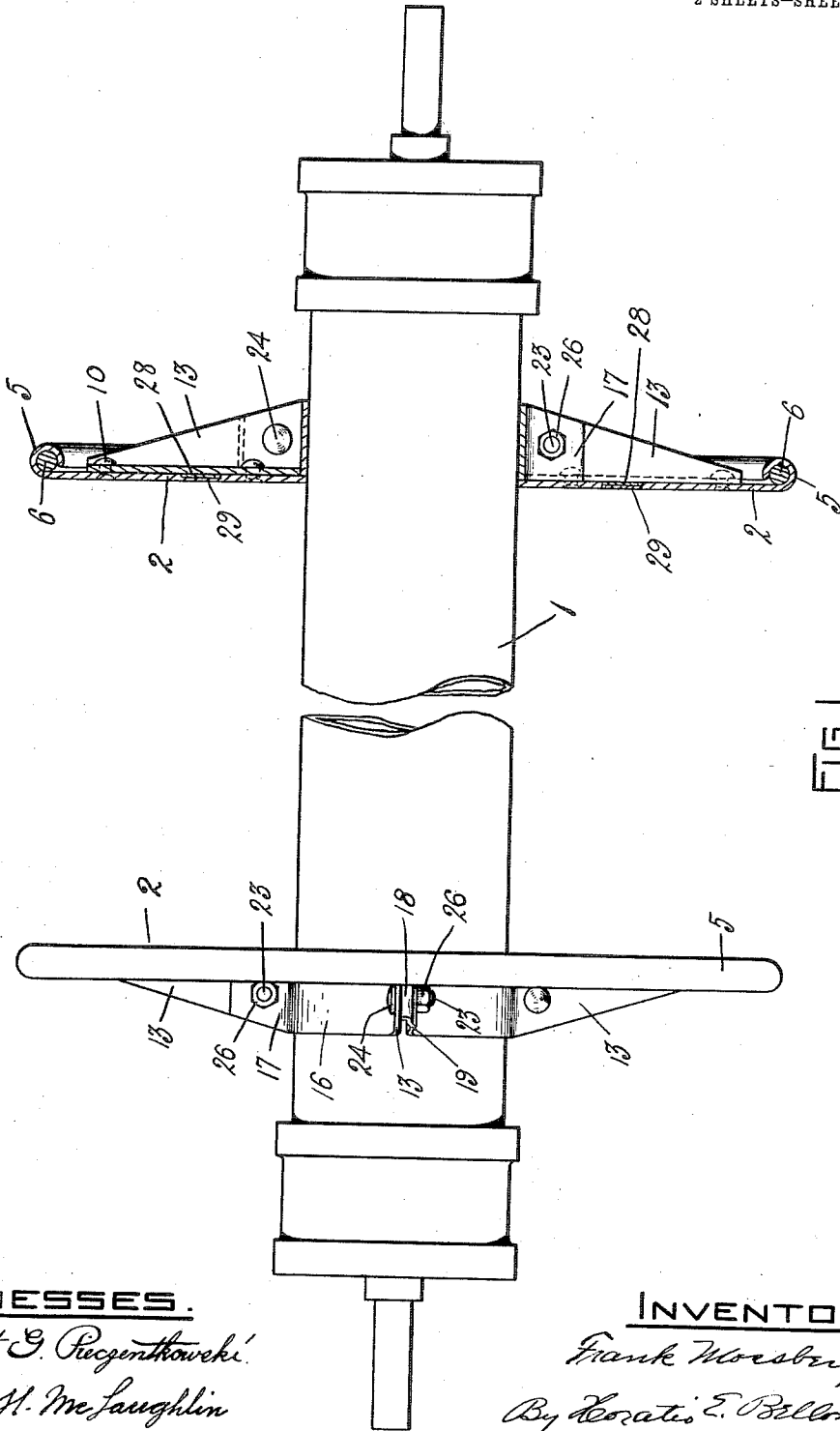


FIG. 1.

WITNESSES.

Albert G. Reczenthawski.
George H. McLaughlin

INVENTOR.

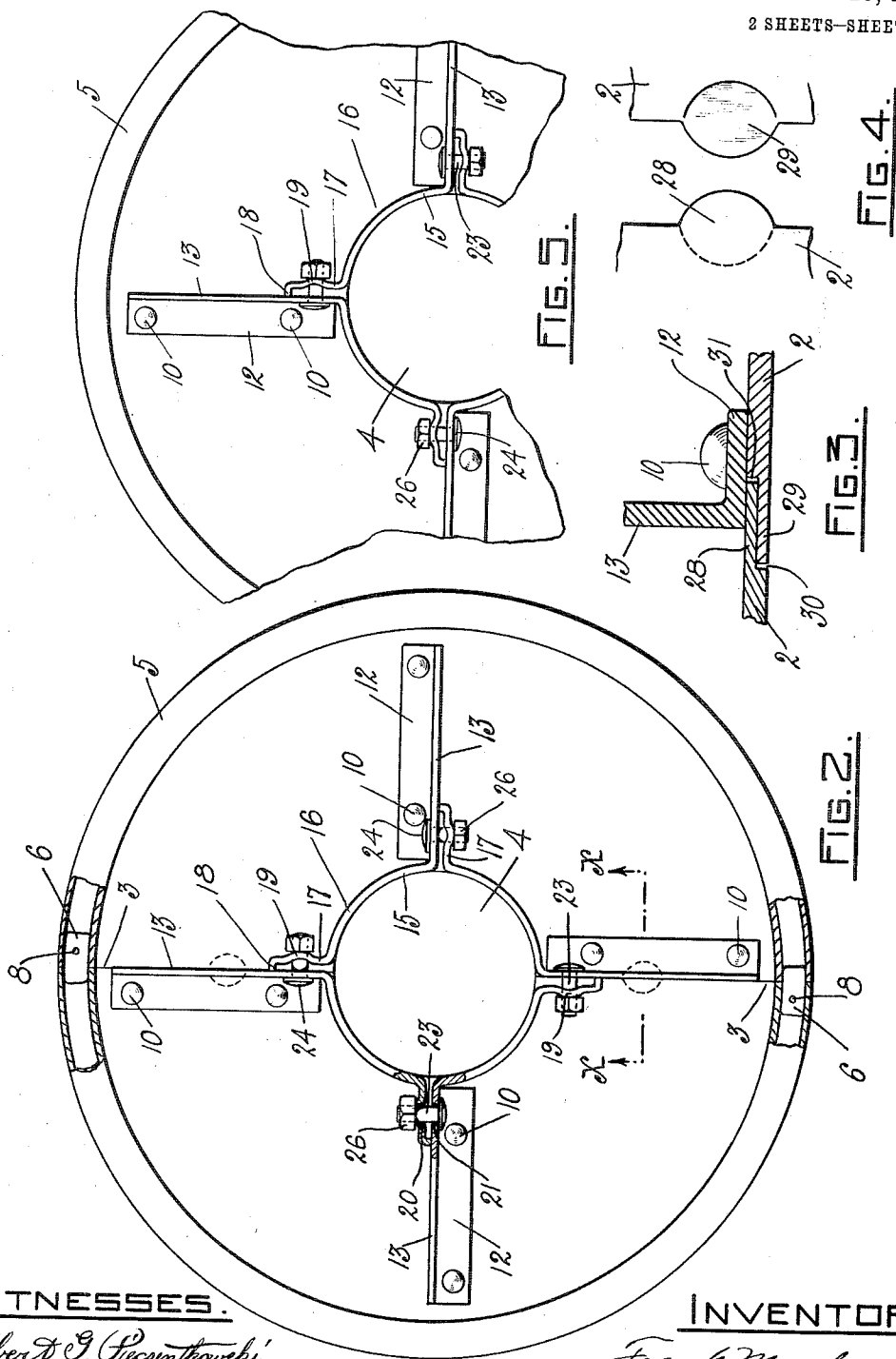
Frank Mossberg
By Horatio E. Bellows

ATTORNEY.

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2 SHEETS—SHEET 2.



WITNESSES.

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George H. McLaughlin.

INVENTOR.

Frank Mossberg
By Horatio E. Bellows

ATTORNEY.

UNITED STATES PATENT OFFICE.

FRANK MOSSBERG, OF ATTLEBORO, MASSACHUSETTS, ASSIGNOR TO FRANK MOSSBERG COMPANY, A CORPORATION OF RHODE ISLAND.

LOOM-BEAM.

1,044,685.

Specification of Letters Patent.

Patented Nov. 19, 1912.

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To all whom it may concern:

Be it known that I, FRANK MOSSBERG, a citizen of the United States, residing at Attleboro, in the county of Bristol and State of Massachusetts, have invented certain new and useful Improvements in Loom-Beams, of which the following is a specification.

My invention relates to loom beams and its essential objects are to provide a firm union of the heads with the body; to adapt the heads to axial bodies of varying diameters; to render the heads readily attachable or removable, and capable of sustaining a maximum strain; and to attain these ends in a simple and inexpensive structure.

To the above ends my invention consists in such a construction and combination of parts as are embraced within the scope of the appended claims.

In the accompanying drawings which constitute a part of this specification, Figure 1 is a side elevation of my novel loom beam, showing one head in central vertical section, Fig. 2, a front elevation of a head with parts broken away, Fig. 3, a section on *a-a* of Fig. 2, Fig. 4, a plan view enlarged of the overlapping ears, and Fig. 5, a partial front elevation of a head consisting of a single disk.

Like reference characters indicate like parts throughout the views.

My novel beam comprises the usual axial member 1 to which are attached two heads 2. As the heads are of similar construction, a detailed description of one will serve for both. The construction of the head illustrated in Figs. 1 to 4 inclusive is as follows. The head 2 is diametrically split as at 3 and is provided at its center with an opening 4 to receive the axial member. It also has a peripheral rolled flange 5 in which are dowels 6 located at the split portions. These dowels may be also fixed to the flange by rivets 8 if desired. Attached by rivets 10 or otherwise to the head are radially arranged angle plates two of which lie along the margin of the split portion of the head.

Each plate has a flat base 12 and an upright lateral flange 13. Integral with this flange at its inner end is a resilient arm 15 provided with a curved intermediate portion 16, in this instance a quadrant, adapted to embrace the body 1, and then bent outwardly forming a radially disposed finger 17 substantially parallel to an adjacent

flange B, and terminating in an inturned lug 18, adapted to abut against said flange. The intermediate portion 19 of the finger 17 is preferably outwardly curved and provided with a perforation 20. Through this perforation and a corresponding perforation 21 in the flange 13 passes a bolt 23 whose head 24 engages the flange 13, and upon whose threaded end is a nut 26 adapted to contact with the swelled portion 19 of the finger.

Upon the split margins of the head are overlapping curved flat projections 28 and 29 of reduced thickness. The portions of the head adjacent the respective projections are compressed to form seats 30 and 31 respectively for the adjacent projections. As shown in Fig. 3 one recess 31 is beneath the base 12 and receives the projection 28 intermediate said base and the projection 29. It will be observed that these projections when interengaged as described assist in maintaining the segments 2 of the head in a common plane under all circumstances.

In applying a head to an axial member 1, the portions 16 of the arms embrace the member and the nuts 26 are tightened thereby forcing the portions of the arms 16 which are adjacent the finger 17 inwardly into more intimate contact with the axial member 1. The fingers 17 and lugs 18 form a brace and fulcrum for each arm.

In Fig. 5, a non-split head 33 is shown. In this case it is obvious that the alining projections 28 and 29 or their equivalents are superfluous.

What I claim is,—

1. In a loom beam, the combination with the body and heads, of oppositely disposed plates fixed to the heads and provided with flanges, arms on the plates frictionally engaging the body, fingers upon the arms, lugs upon the fingers in contact with the flanges, and a bolt connecting each finger with an adjacent flange.

2. In a loom beam, the combination with a body and heads, of radially disposed plates upon the heads, flanges upon the plates provided with perforations, curved arms at the inner ends of said plates adapted to contact with the body, fingers upon the arms provided with perforations, lugs upon the fingers in contact with the flanges, bolts passing through the perforations of the flanges and fingers, heads upon one end

of each bolt, and a nut upon the other end of each bolt.

3. In a loom beam, the combination with a body and heads, of radially disposed plates
5 fixed to the heads, flanges upon the plates provided with perforations, arcuate arms at the inner ends of said plates embracing the body, fingers upon the arms parallel with adjacent flanges and provided with
10 outwardly swelled intermediate portions, lugs upon the fingers abutting against adjacent flanges, bolts connecting the swelled portions of the fingers and adjacent flanges and nuts upon the bolts pressing against the
15 swelled portions.

4. In a loom beam, the combination with the body and heads, of radially disposed flanged plates fixed to the heads, arms at the inner ends of said plates embracing the
20 body and resiliently movable relatively to

said heads and plates, and means connecting said flanges to the arms for forcing said arms into contact with the surface of the body.

5. In a loom beam, the combination with the body and heads, of radially disposed
25 flanged plates fixed to the heads, arms at the inner ends of said plates embracing the body and resiliently movable relatively to said heads and plates, and means connecting said flanges to the arms for forcing said
30 arms into contact with the surface of the body, said arms being independent of the outer periphery of the head.

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

FRANK MOSSBERG.

Witnesses:

LEONARD W. HORTON,
HORATIO E. BELLOWES.