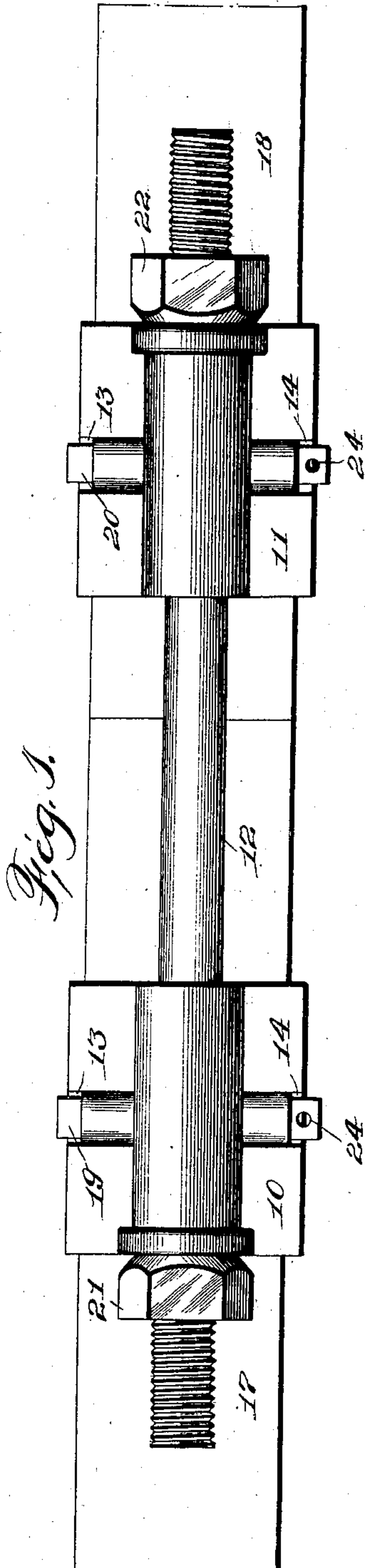


No. 751,370.

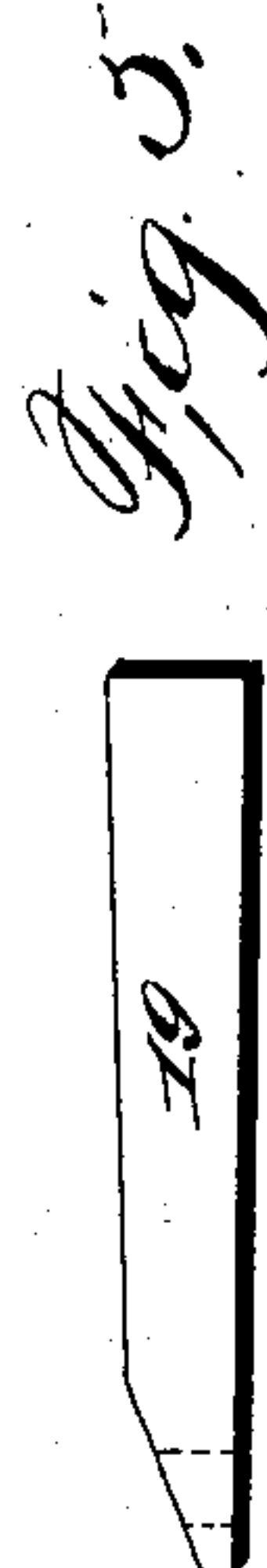
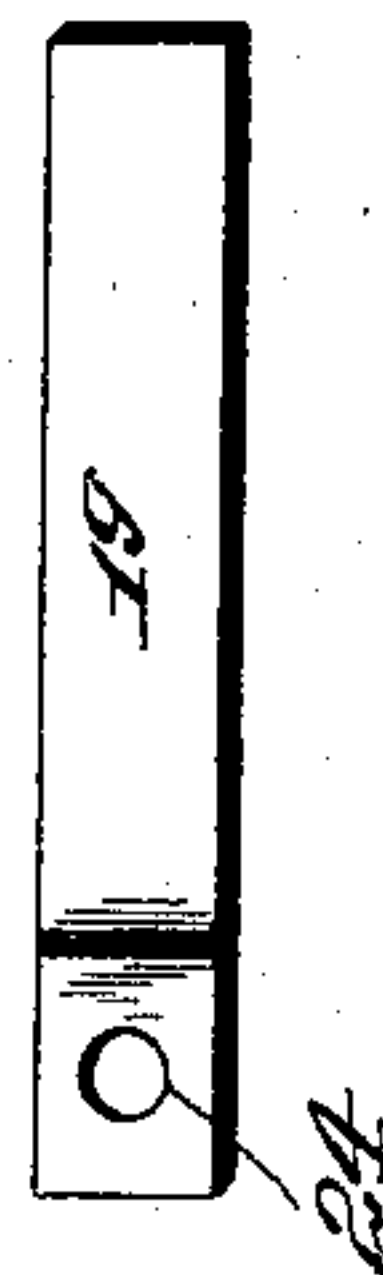
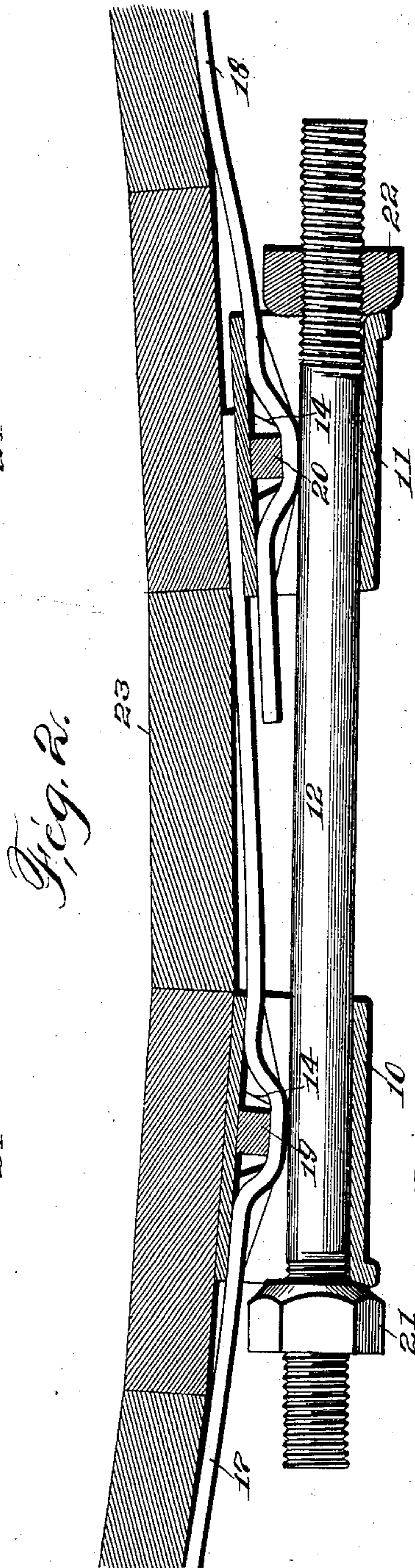
PATENTED FEB. 2, 1904.

H. H. BECKMAN.
BAND FASTENING.
APPLICATION FILED MAR. 30, 1903.

NO MODEL.



Attest:
D. B. Onig.
W. E. Ellis



Inventor
Herman H. Beckman
by *fl. Swob* Atty.

UNITED STATES PATENT OFFICE.

HERMAN H. BECKMAN, OF DES MOINES, IOWA, ASSIGNOR TO BECKMAN BROTHERS, OF DES MOINES, IOWA, A FIRM.

BAND-FASTENING.

SPECIFICATION forming part of Letters Patent No. 751,370, dated February 2, 1904.

Application filed March 30, 1903. Serial No. 150,187. (No model.)

To all whom it may concern:

Be it known that I, HERMAN H. BECKMAN, a citizen of the United States of America, and a resident of Des Moines, Polk county, Iowa, have invented a new and useful Band-Fastening, of which the following is a specification.

The object of this invention is to provide improved means for connecting end portions of a hoop or band employed on wooden containing vessels and the like, whereby said end portions of the hoop or band may be approximated to each other, overlapped, or separated, as required, to tighten a band or hoop on a vessel or slacken the same for adjustment or removal.

My invention consists in the combination of heads recessed to receive end portions of a hoop or band, means for connecting said heads, and transverse wedges mounted in said heads and arranged to kink or offset the end portions of the band therein, whereby connection is established and maintained between the heads and band.

My invention consists, further, in the construction, arrangement, and combination of elements hereinafter set forth, pointed out in my claims, and illustrated by the accompanying drawings, in which—

Figure 1 is an elevation or face view illustrating the application of my improved band-fastening to end portions of a band. Fig. 2 is a horizontal sectional view illustrating my improved fastening applied to end portions of a band and mounted on a segment of a wooden containing vessel. Fig. 3 is a perspective of one of the heads detached from the other parts. Figs. 4 and 5 are detail views of the transverse wedge employed in my device.

In the construction of the device as shown the numerals 10 11 designate heads identical in construction and arranged in opposition to each other. Each of the heads 10 11 is recessed or formed hollow, and the bottom plate thereof is imperforate and continuous from end to end of the device. Each head is open at its ends, and the outer wall thereof is arched from the bottom plate to accommodate and provide for the passage through the heads of a straining-bolt 12. Transverse notches 13 14 are formed

in the central portions of the sides of the heads at the juncture of the base-plate and arched wall, and the innermost walls of said notches are flush with the outer face of the base-plate. The arched forward wall of each head is set inward from the side margins of the base-plate to form shoulders 15 16 within the head parallel with and opposite to the outer face of the base-plate. End portions 17 18 of a band are passed through the heads 10 11 between the outer faces of the base-plates and the shoulders 15 16, and wedges 19 20 are driven through the notches 13 14 between the end portions of the band and said outer faces of the base-plates. The wedges 19 20 are of identical construction and tapered throughout their lengths, the thinner end portion of each wedge being further tapered or beveled more abruptly than the body portions thereof in order that either wedge may be started to its seat in the head easily. The seating of the wedges in and transversely of the central portions of the heads has the effect of kinking, flexing, or offsetting the end portions of the band within the heads, thus establishing a firm and stable connection between said band and the heads and preventing slipping of the heads on the band. Each end portion of the straining-bolt 12 is threaded, and nuts 21 22 are mounted thereon and engage the extreme outer end portions of the heads. Screwing of the nuts 21 22 on the end portions of the straining-bolt 12 has the effect of moving the heads 10 11 toward each other, and since said heads are connected rigidly (by the transverse wedges 19 20) to the ends of the band any approach of the heads to each other sets up a corresponding contraction of the band on the wooden containing vessel 23.

It will be noted that the wedges are positioned transversely of the heads and band and flex the band within the heads independent of any straining of the bolt 12 thus rigidly yet removably connecting the heads to the band independent of the straining-bolt.

The holes 24 are provided in the wedges for the reception of cord or wire for fastening the wedges to the other parts in transportation or storage.

I claim as my invention—

1. As an improved article of manufacture,
a band-fastening comprising the heads re-
cessed for the passage therethrough of band
5 ends and also notched transversely interme-
diate of their ends, wedges mounted trans-
versely of said heads and through said notches,
said wedges located between the base-plates
of the heads and the band ends, and a strain-
10 ing-bolt connecting said heads independent of
the wedges.

2. As an improved article of manufacture,

a band-fastening comprising the heads re-
cessed for the passage therethrough of band
ends, wedges separate from and mounted 15
transversely of the heads, whereby the band
ends are flexed within the heads, and a strain-
ing-bolt connecting said heads.

Signed by me at Des Moines, Iowa, this 12th
day of March, 1903.

HERMAN H. BECKMAN.

Witnesses:

C. BECKMAN,
S. C. SWEET.