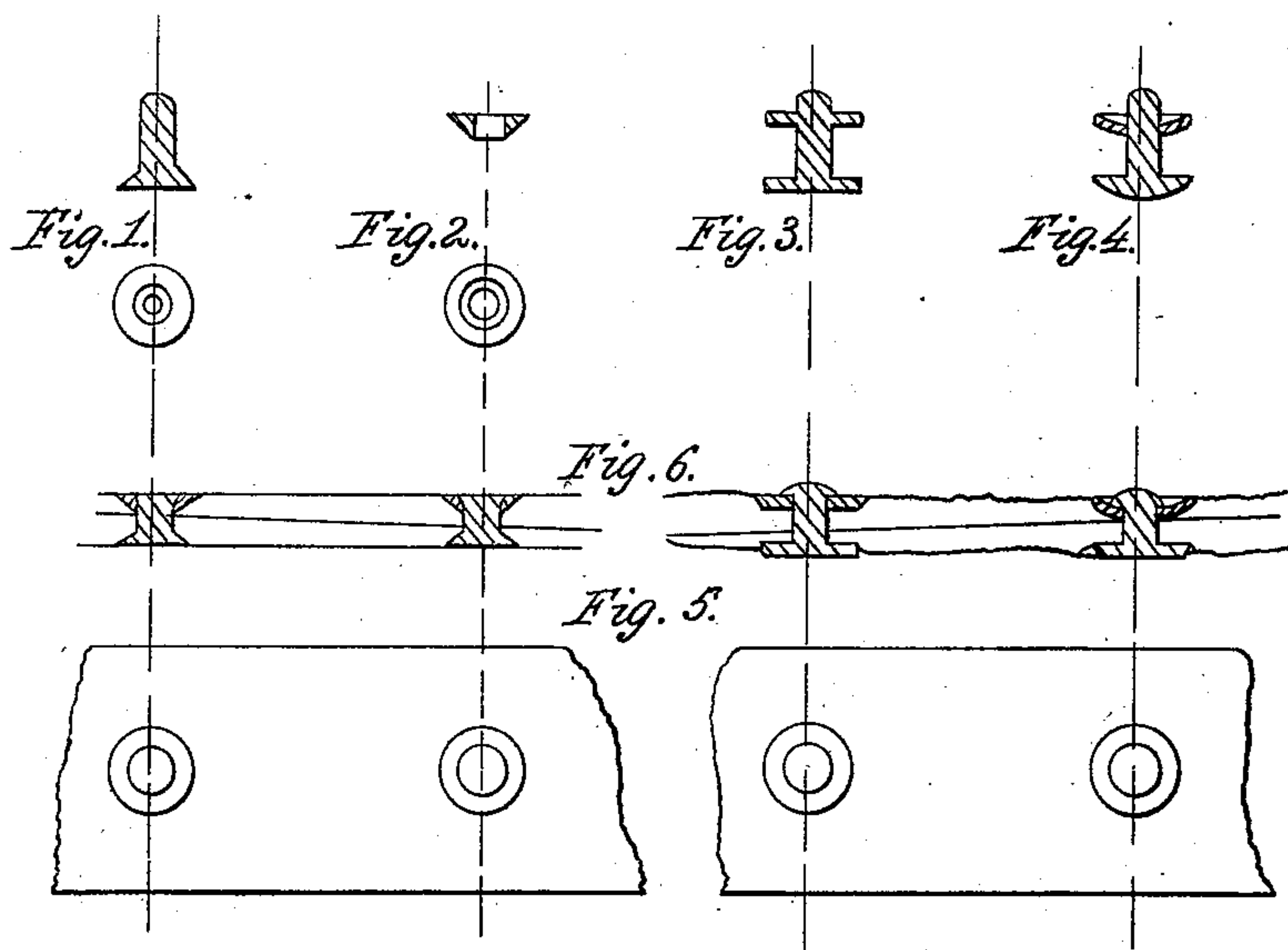


F. W. WOOD.

Rivet.

No. 5,245.

Patented Aug. 14, 1847.



Witnesses:

W. Serrell  
Samuel W. Serrell

Inventor:

F. W. Wood

# UNITED STATES PATENT OFFICE.

FREDERIC WM. WOOD, OF NEW YORK, N. Y.

## RIVET FOR LEATHER BANDS.

Specification of Letters Patent No. 5,245, dated August 14, 1847.

*To all whom it may concern:*

Be it known that I, FREDERIC WILLIAM WOOD, of the city, county, and State of New York, leather dealer and stretched-  
5 leather-band manufacturer, have invented and made and applied to use certain new and useful improvements in the mode of shaping and applying the heads and burs of rivets used in jointing the lengths of  
10 leather employed in bands for driving machinery by which the heads and burs are set flush with the faces of the band which thus becomes more effective and more lasting in use, and for which improvements I  
15 seek Letters Patent of the United States, and that the said improved mode of forming such rivets and burs and the effects in use are fully and substantially set forth and shown in the following description  
20 thereof, referring in succession to the figures shown in the drawing annexed to and making part of this specification, wherein—

Figure 1 is a sectional elevation, with a plan beneath, of my improved rivet, shown  
25 as made with a conical, or countersinking form, next the shaft, so that the head is feather-edged; Fig. 2 is a section, with a plan beneath, of my improved bur, shown as beveled to a feather-edge, with a slightly  
30 conical hole, and slightly concave annular surface; the Fig. 3., shows in sectional form, one shape of the common rivet, with a flat head, and bur, and the Fig. 4 shows a saucer headed rivet, with a dished bur, of  
35 equal thickness; the Fig. 5., is a plan, showing the forms assumed on the face of a band, by the clenches, and burs, of each of the above rivets, and Fig. 6., is a section of the plans, showing the forms assumed,  
40 in the body of the leather, as well as on the face of the band, by each description of rivet, above referred to, when it is completely in place for use; by the contrast thus shown, it will be seen, that when in use the

heads and clenches of the rivets Figs. 3., 45 and 4., are above the line of surface of the band, which produces two injurious effects, in use, one is, that the cohesion of a band on a drum is interrupted, by the interposing contact of the heads, or clenches, and  
50 a short jump, or slip, is caused, and at the same moment the band is slightly tightened, adding a jar, or shake, to the partial slip with a concussion which eventually injures  
55 either the band, or drum, or both of them. The Figs. 1., and 2., and the corresponding rivets, in the plan Fig. 5., and section Fig. 6., shows, that my improved countersunk feather-edged rivet head, and feather edged  
60 and concave faced bur, lying flush with the faces of the band, are free from these objections to the common forms of rivets, and thereby produce a new and useful result, that the cohesion, and traction, of the band,  
65 remains equal, through every part of the motion.

I do not claim to have invented the feather edged, or countersunk rivet head, as that form is well known; but

I do claim as new, and of my own in-  
70 vention, and desire to secure by Letters Patent of the United States,

The application of rivets, so formed in the head, conjointly with a feather edged bur, having a concave or dished face, with  
75 a conical hole, to receive the clench, and finish the rivet flush with the faces, on both sides of the band, substantially in the manner, and with the effects, described and shown.  
80

In witness whereof I have hereunto set my hand in the city of New York this nineteenth day of July, one thousand eight hundred and forty seven.

F. W. WOOD.

Witnesses:

W. SERRELL,

LEMUEL W. SERRELL.