

W. R. Bishop,
Cross-Head Gib.

No. 55,992.

Patented July 3, 1866.

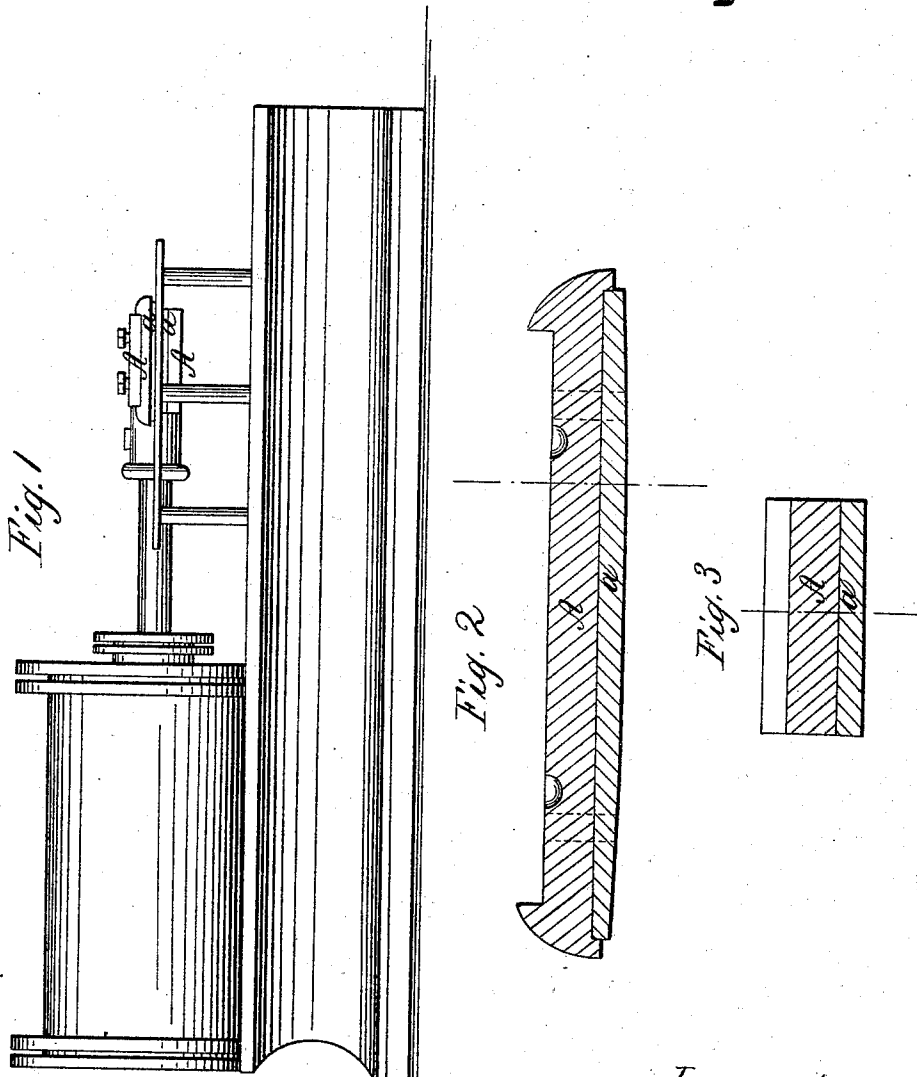


Fig. 1

Fig. 2

Fig. 3

Witnesses

J. W. P. Cringham
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UNITED STATES PATENT OFFICE.

WILLIAM R. BISHOP, OF SHERWOOD, WISCONSIN.

IMPROVEMENT IN GIBS FOR CROSS-HEADS.

Specification forming part of Letters Patent No. 55,992, dated July 3, 1866.

To all whom it may concern:

Be it known that I, WILLIAM R. BISHOP, of Sherwood, Calumet county, State of Wisconsin, have invented a new and useful Improvement in Gibs; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 represents a side elevation of a cross-head provided with my improved gib. Fig. 2 is a detached longitudinal section of my gib on a larger scale than the previous figure. Fig. 3 is a transverse section of the same.

Similar letters of reference indicate like parts.

This invention consists in the application and use of leather on the working-face of a gib in such a manner that a self-lubricating gib is obtained which will work with less friction and which is less liable to wear out than an ordinary gib.

A represents a gib of that class generally employed for cross-heads of steam-engines and for similar parts of other machines. Such gibs are usually made of brass, sometimes of cast iron or steel, and in few instances of hard

wood, and it is well known to practical engineers that said gibs are liable to heat when not properly oiled, and that they wear out at short intervals, so that the same have to be replaced at shorter or longer intervals. This difficulty is avoided by my gib, the working-face of which is protected by a strip, *a*, of leather, which is secured to the body of the gib by rivets, screws, or any other suitable means. By this strip of leather my gibs are rendered self-lubricating, and they run with less friction than any other gib known to me.

According to my present experience, a gib with a leather face can be run at a great speed for a long time without perceptible wear. I have myself run an engine with a piston-speed of from seven hundred to seven hundred and fifty feet per minute for four months with gibs laid with a single thickness of common belt-leather.

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

A gib composed of a metal body, *A*, and strip of leather *a*, substantially as and for the purpose described.

WM. R. BISHOP.

Witnesses:

CHAS. SHOEMAKER,
ALFRED GALPIN.