

W. Leas

Belt Fastener.

N^o 52,178.

Patented Jan. 23, 1866.

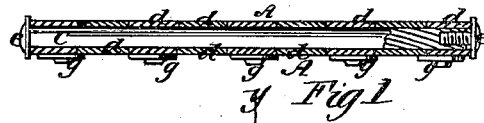


Fig. 3.

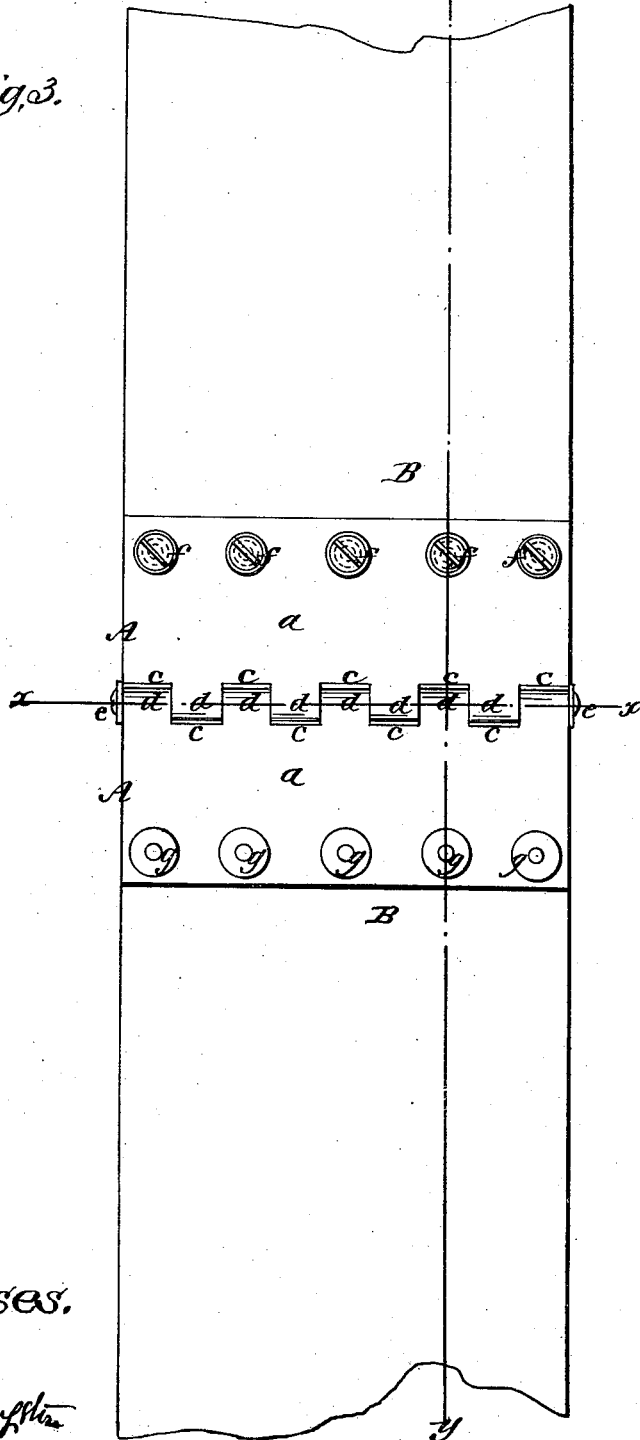
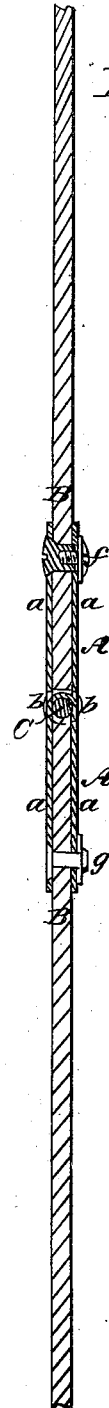


Fig. 2.



Witnesses.
H. P. Baugh
H. M. Livingston

Inventor.
Worley Leas

UNITED STATES PATENT OFFICE.

WORLEY LEAS, OF KOKOMO, INDIANA.

IMPROVED BELT-COUPLING.

Specification forming part of Letters Patent No. 52,178, dated January 23, 1866.

To all whom it may concern:

Be it known that I, WORLEY LEAS, of Kokomo, Howard county, and State of Indiana, have invented a new and Improved Belt-Coupling; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those 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 is a transverse section of my invention, taken in the line *x x*, Fig. 3; Fig. 2, a longitudinal section of the same, taken in the line *y y*, Fig. 3; Fig. 3, an outer or face view of the same.

Similar letters of reference indicate like parts.

This invention relates to a new and improved coupling for connecting together the ends of machine-belt; and it consists in constructing the coupling of two parts, each part being composed of a plate or strip of metal or other suitable material, bent at about the center to form two parallel parts, with a rounded or semi-cylindrical edge at the bend, said edges being cut or having recesses formed in them to leave projecting portions, the projecting portion of one edge fitting in the recesses of the other edge, with a pin or pintle passing through them, the whole forming a joint or hinge, the two parts of which may be readily connected or disconnected, and one or both parts detached from the belt, so that the latter may be taken up or shortened whenever required, and the coupling applied again with the greatest facility.

A A represent the two parts of the coupling, each part being composed of a plate of metal or other material, bent or otherwise formed so as to have two parallel parts, *a a*, with a rounded or semi-cylindrical edge, *b*, as shown clearly in Fig. 2. The rounded edges *b b* are of such dimensions transversely that sufficient space will be allowed between the parts *a a* to receive the ends B B of the belt, which may extend between the parts *a a* to the commencement of the curvature of the edges *b b*, and no farther. These edges *b b* have rectangular recesses *c* made in them, of equal length and at equal distances apart, so as to leave projecting portions *d* equal in length to the recesses *c*, as shown clearly in Fig. 3.

The projecting portions *d* of one part of the coupling are fitted in the recesses *c* of the

other, and the two parts are connected together by a pin or pintle, C, which passes through all of the projecting portions *d* of both parts of the coupling, the pin or pintle C being secured in position by screws *e*, which pass into its ends, the heads of said screws preventing any longitudinal movement of the pin or pintle.

The two parts of the coupling are secured to the ends of the belt by means of screws *f* or rivets *g*, both of which are shown more particularly in Fig. 2. The screws *f* should be used for securing one of the parts of the coupling to its end of the belt, in order that said part may be readily detached when the belt requires to be taken up or shortened. Rivets *g* may be used for the other, if desired, but the heads of both the rivets and screws, if both be employed, should be as nearly flush as possible with the exterior of the parts *a a'*, so as to work smoothly over the pulleys on which the belt is placed.

This coupling, it will be seen, forms a hinge or joint which will work freely over the pulleys, conforming nearly to their curvature, or allowing the ends of the belt to do so, and it will further be seen that the hinge or joint will turn or bend in either direction, so that in case an idler or friction pulley is run on or applied to the belt the coupling will conform to its curvature as well as to that of the others.

The device may be constructed at a very moderate cost, and it will form a firm connection for the ends of the belt, and a very durable one.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

A belt-coupling, composed of two parts, A, of metal or other suitable material, bent or otherwise formed so as to have two parallel parts, *a a*, between which the ends of the belt are secured by rivets or screws, and having rounding edges *b*, with recesses *c* made in them to form projecting portions *d*, the latter of one part, A, fitting in the recesses *c* of the other, with a pin or pintle, C, passing through the portion *d*, substantially as described.

WORLEY LEAS.

Witnesses:

A. P. HAIGHT,
M. M. LIVINGSTON.