L. F. ROGERS.

DRAFT GEAR.

APPLICATION FILED AUG. 10, 1917.

1,302,436.

Patented Apr. 29, 1919.

2 SHEETS—SHEET 1.

Fig. 1.

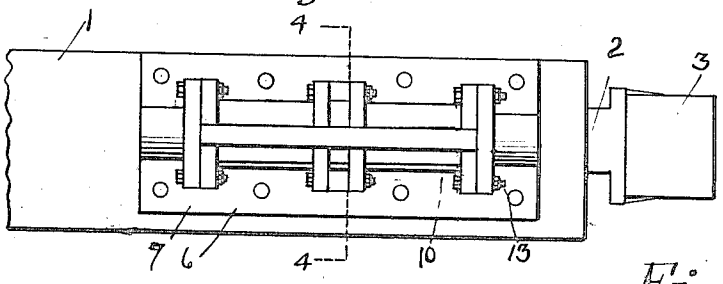


Fig. 5.

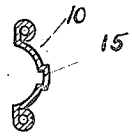


Fig. 2.

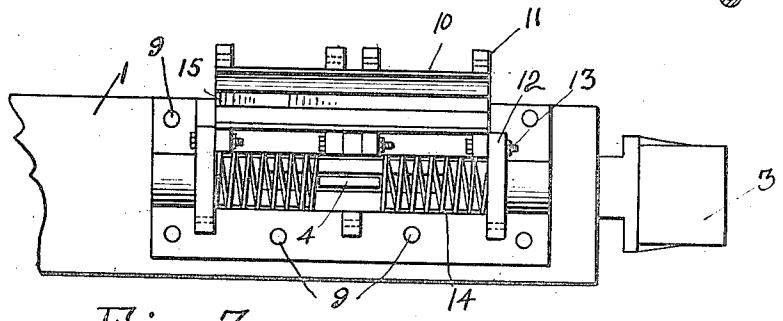


Fig. 3.

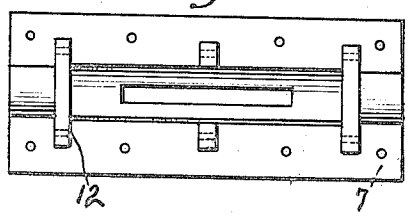
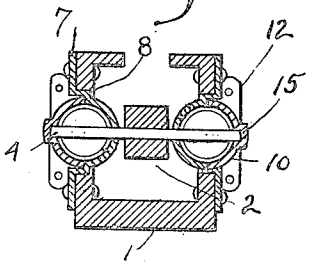


Fig. 4.



WITNESSES

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2 SHEETS—SHEET 2.

Fig. 6.

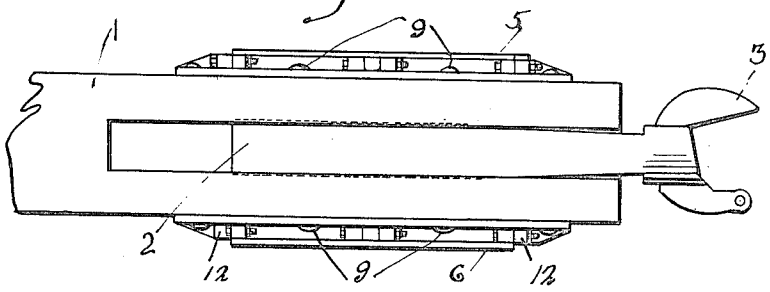


Fig. 7.

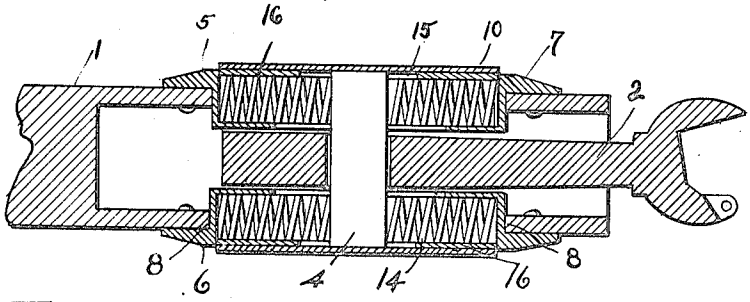


Fig. 8.

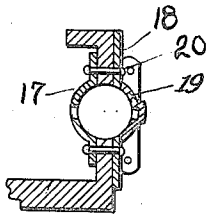
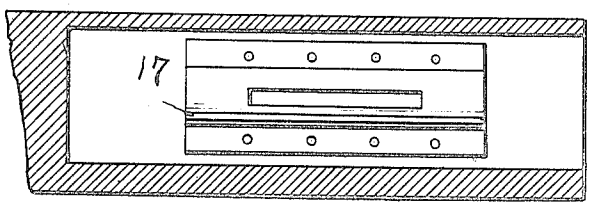


Fig. 9.



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DRAFT-GEAR.

1,302,436. Specification of Letters Patent. Patented Apr. 29, 1919.

Application filed August 10, 1917. Serial No. 185,625.

To all whom it may concern:

Be it known that I, LEVI F. ROGERS, a citizen of the United States, residing at Pittsburgh, in the county of Allegheny and State of Pennsylvania, have invented new and useful Improvements in Draft-Gears, of which the following is a specification.

This invention relates to a draft gear and has for its primary object to construct a draft gear the component parts of which may be more readily assembled and disassembled.

An object of the invention is the novel manner of supporting the resilient means so that the coil springs may be readily arranged in place and removed for obvious reasons.

Besides the above my invention is distinguished in the manner of housing the coil springs so that the same will be protected at all times.

With these and other objects in view the invention will be better understood from the following detail description taken in connection with the accompanying drawings wherein:—

Figure 1 is a side elevation of a gear.

Fig. 2 is a similar view with the cover shown thrown in open position.

Fig. 3 is a detail view of a portion of the casing.

Fig. 4 is a cross sectional view of the line 4—4 of Fig. 1.

Fig. 5 is a transverse sectional view through a stamped cover.

Fig. 6 is a plan view of the gear.

Fig. 7 is a horizontal sectional view.

Figs. 8 and 9 are detail views of a modified form of the invention.

Again referring to the drawings the numeral 1 designates a draft beam hollow at its ends in which is slidably mounted the shank 2 of a coupling member 3. This shank has passed therethrough a tongue or key 4, the end portions of which project into and are slidably mounted in casings 5 and 6.

Each casing consists of a body portion 7 mounted in an opening 8 in the draft beam and rigidly secured to the draft beam in any suitable manner, such for instance as by rivets 9. Each casing includes a cover 10 which may be stamped as illustrated in Fig. 5 of the drawings, or cast as illustrated in the remaining figures of the drawings. The cover 10 is provided with ears 11 which are pivoted to ears 12 on the body by a bolt or pin 13. By this arrangement it will be seen that ready access may be had to the interior of the casing. Arranged in the casing and acting directly against the key 4 are coil springs 14 which take care of the proper movement of the coupling member and absorb excessive shocks. Each cover 10 is formed with a guide way 15 which receives the extreme end of the key 4 and prevents twisting thereof and assures the proper travel of the coupling member.

If found necessary in practice to increase the resistance of the spring, blocks of wood 16 may be lodged in the guide way 15 in a position to cause a rubbing action between the blocks and the springs, as clearly shown in Fig. 7 of the drawing.

The construction illustrated in Figs. 8 and 9 is identical with that just described with the exception that the body 17 of the casing is bolted directly to the interior of the draft beam. The strip 18 has a hinge connection with the cover 19 as indicated at 20.

From the foregoing description taken in connection with the accompanying drawing it should be apparent that the construction is such that the individual parts may be readily removed when it becomes necessary to renew an element and besides the bumper springs will be completely housed while ready access may be had thereto.

Having described my invention what I claim is:—

1. A draft gear comprising a draft beam, a coupling member having its shank slidably mounted in said beam, a key mounted in the shank and slidably mounted in slots in the beam, coil springs acting against the key and a covering hinged to the beam for completely covering said springs.

2. A draft gear comprising a draft beam, a coupling member having its shank slidably mounted in said beam, a key secured to the shank and slidably supported by the beam, springs acting against the key and casings inclosing the springs.

3. A draft gear comprising a draft beam, a coupling member having its shank slidably mounted in said beam, a key secured to the shank and slidably supported by the beam, springs acting against the key and casings inclosing the springs, each of said casings including a hinge cover.

4. A draft gear comprising a draft beam

hollow at its ends a coupling member having its shank slidably mounted in an end of the beam, a key passing through the shank in a lateral direction, springs acting against the key, casings set into the beam and supporting the springs and hinge covers for the casings adapted to inclose the springs and allow the removal thereof; each of said covers being further provided with a guide way engaging an end of said key.

In testimony whereof I affix my signature.

LEVI F. ROGERS.