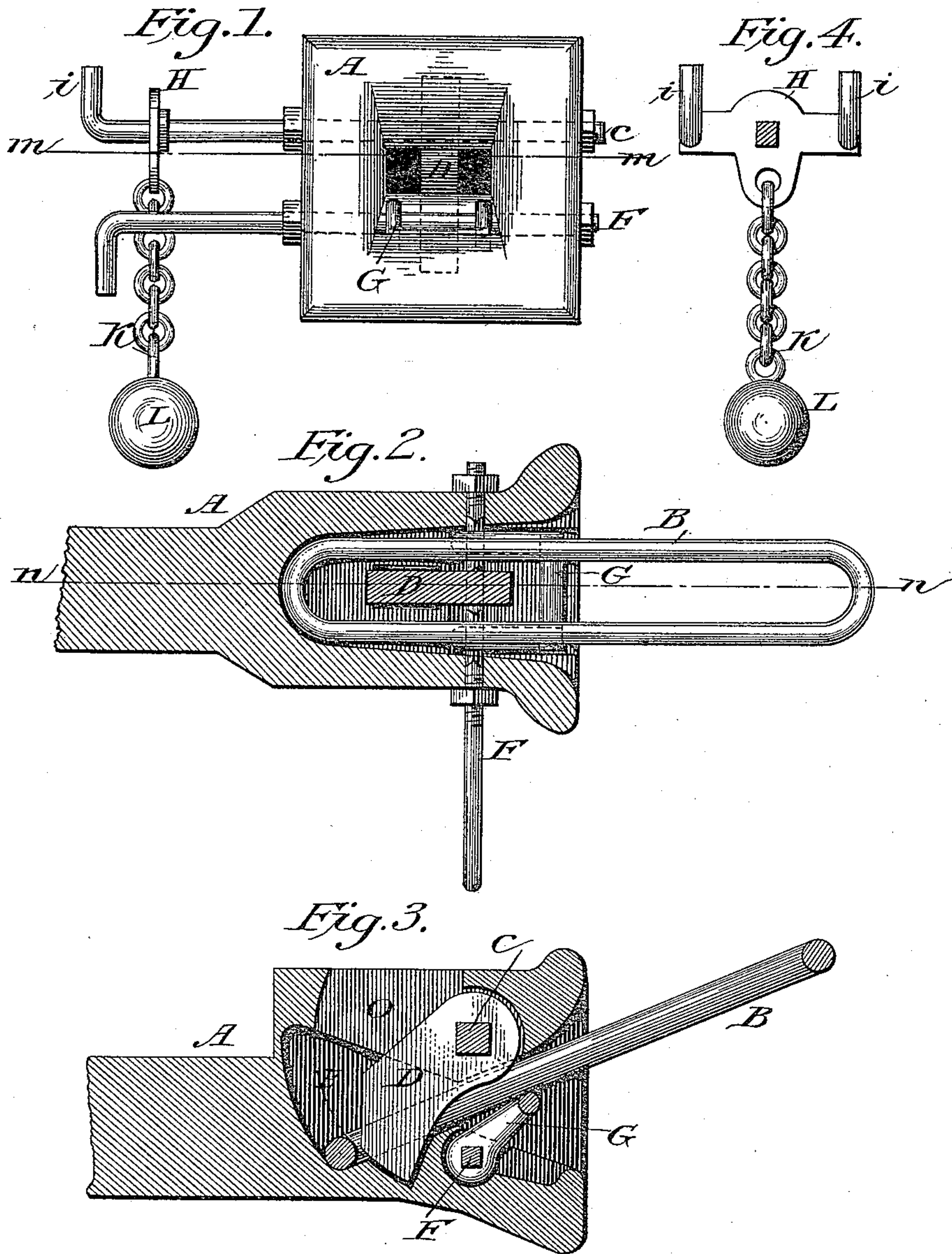


(No Model.)

O. L. GILBERT.
CAR COUPLING.

No. 440,770.

Patented Nov. 18, 1890.



Witnesses:
Hans Schle
Henry Foss

Inventor:
Oscar Louis Gilbert

UNITED STATES PATENT OFFICE.

OSCAR LOUIS GILBERT, OF ST. PAUL, MINNESOTA.

CAR-COUPLING.

SPECIFICATION forming part of Letters Patent No. 440,770, dated November 18, 1890.

Application filed June 21, 1890. Serial No. 356,310. (No model.)

To all whom it may concern:

Be it known that I, OSCAR LOUIS GILBERT, a citizen of the United States, residing at St. Paul, in the county of Ramsey and State of Minnesota, have invented an additional improvement over my former invention in Car-Couplings, (embodied in application Serial No. 343,808, filed March 13, 1890,) of which the following is a specification.

10 The entire invention relates to improvements in coupling and uncoupling railroad-cars; and the objects of my improvements are to accomplish the coupling and uncoupling of cars by means of a swing-pin, its axle, and attachments, together with a link-lifter. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

20 Figure 1 is a front view of the entire mechanism; Fig. 2, a top view inside the draw-head on section M, Fig. 1, showing the coupling pin and link as well as the swing-bar in position for lifting the link. Fig. 3 is a side view of the mechanism inside the draw-head on section N, Fig. 2, showing the link when placed in position by means of the swing-bar for coupling another car with draw-head of different height. Fig. 4 is a front view of the cross-piece on axle C, with a hook on each end and chain and weight attached in the center.

Similar letters refer to similar parts throughout the several views.

35 Letters A A A refer to the draw-heads. Letters B B show the link when coupled. Letters C C C illustrate the axle, which is run through the upper part of the draw-head. Letters D D D show the coupling-pin, which is connected with the axle C inside the draw-head.

40 Letter E refers to space provided for the link and pin.

Letters F F F represent the swing-bar, which

runs through the draw-head projecting from same on one side and being bent for a handle. 45

Letters G G G represent a piece of iron, the form of which is illustrated in the drawings. This is attached to the swing-bar F and rests in a recess in the bottom of the draw-head. The swing-bar being turned, this attachment 50 will lift the link.

Letters H H show the cross-piece fastened to the end of axle C outside the draw-head. In the center of this cross-piece is attached a chain with weight. To each end of the 55 cross-piece is a hook marked I.

Letters I I I illustrate the hooks on each end of the cross-piece H. These hooks serve the purpose of coupling and uncoupling when the chain with weight attached is placed there 60 by rotation of the coupling-pin D.

Letters K K refer to the chain fastened to the center of the cross-piece H.

Letters L L show the weight attached to chain K. 65

Letter O represents an opening on top of the draw-head for the purpose of putting the pin through.

Having previously made application for Letters Patent for the combination of the 70 coupling-pin on an axle, link, and cross-piece with attachments, I do not now claim the entire combination herein specified; but

What I do claim as my invention, and desire to secure by Letters Patent, is— 75

The combination of the draw-head, constructed as shown, with the axle provided with the swing coupling-pin, and having at one end the cross-piece H, provided with the chain and weight and the two hooks, and 80 with the swing-bar F, bearing the link-lifter, all substantially as described.

OSCAR LOUIS GILBERT.

Witnesses:

HENRY FOSS,
WILLIAM LITTAG.