

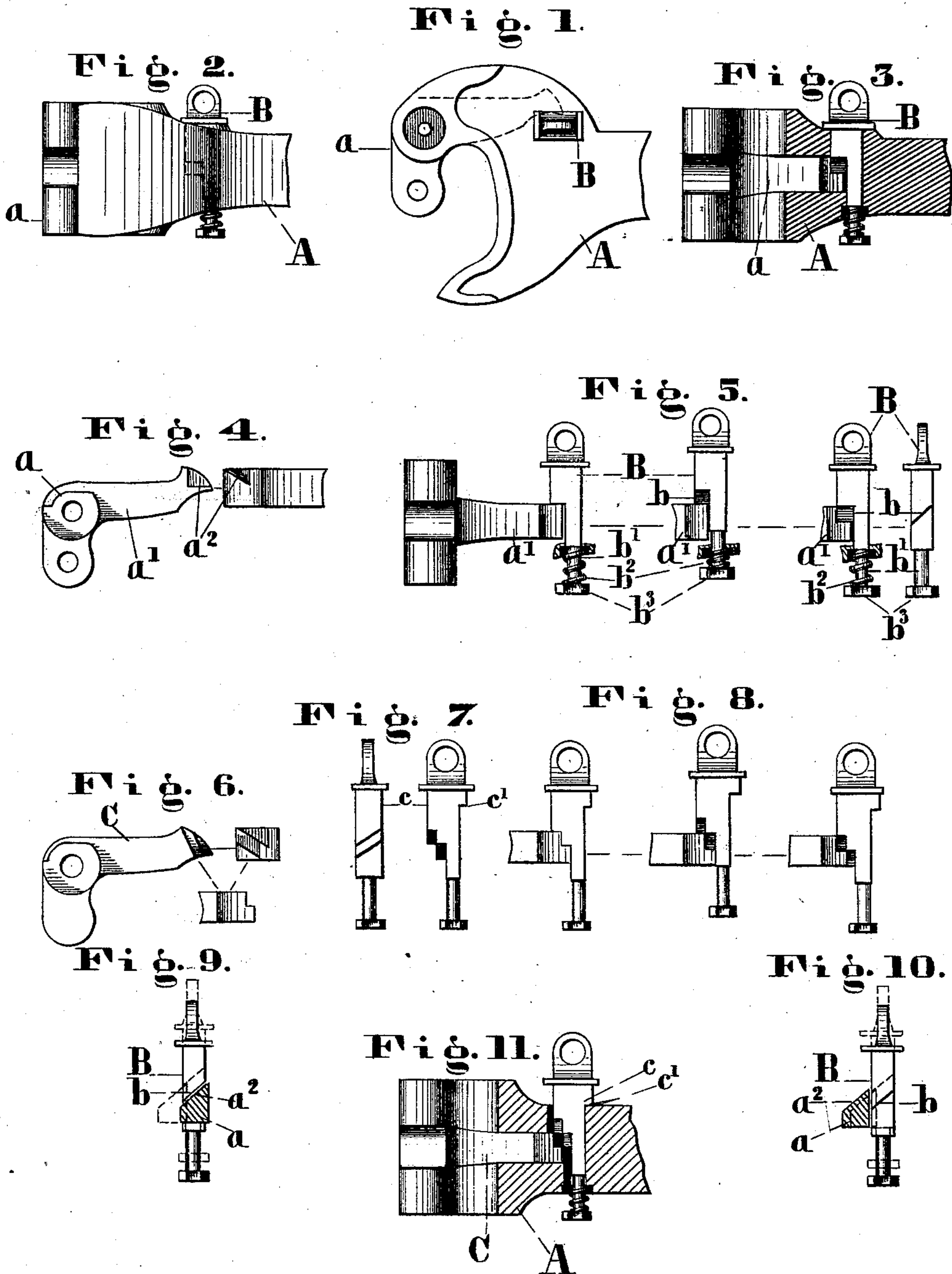
(No Model.)

E. H. JANNEY.

CAR COUPLING.

No. 254,093.

Patented Feb. 21, 1882.



WITNESSES:
T. S. West,
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UNITED STATES PATENT OFFICE.

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CAR-COUPLING.

SPECIFICATION forming part of Letters Patent No. 254,093, dated February 21, 1882.

Application filed November 24, 1880. Renewed August 9, 1881. (No model.)

To all whom it may concern:

Be it known that I, ELI H. JANNEY, of the county of Fairfax and State of Virginia, have invented new and useful Improvements in Car-Couplers; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

10 This invention is specially designed for use upon freight-cars; and it consists mainly in the combination of a specially-constructed lever-arm of a rotating hook-nose with a specially-constructed locking-pin, as will be fully described hereinafter.

15 In the drawings, Figure 1 represents a plan view of my improved coupler; Fig. 2, a side elevation of the same; Fig. 3, a side elevation partially in section; Fig. 4, views of the lever-arm detached; Fig. 5, various views illustrating the action of the lever-arm and locking-pin; and Figs. 6, 7, 8, 9, 10, and 11, various views of a modified construction.

20 To enable others skilled in the art to make and use my improved coupler, I will proceed to describe fully the construction of the same and its manner of operation.

25 A, Figs. 1, 2, 3, and 11, represents the draw-head of the coupler, which may be of the Janney or other proper type.

30 a, Fig. 4, represents a hook-nose adapted to rotate on a proper pivot-pin, which is provided with the lever-arm a' , having the inclined face a^2 , as shown.

35 B, Fig. 5, represents a locking-pin, which is held in the draw-head, as shown in Fig. 3, in such manner as to move freely in a vertical direction.

40 b represents an inclined face upon one side of the pin, and b' a downwardly-extending stud or bolt, which may be provided with a spring, b^2 , and also a nut, b^3 , for securing the spring in place.

45 The end of the lever-arm is so held relatively to the locking-pin that when it is swung in a backward direction its inclined face comes in contact with the inclined face upon the locking-pin.

The operation is substantially as follows:

50 As the lever-arm swings backward when the hook-nose is being closed the inclined face of its lever-arm is caused to come in contact with the inclined face of the locking-pin, as shown in the first view of Fig. 5. By the continued movement of the arm the locking-pin is raised 55 against the action of the spring b^2 , as shown in the second view of Fig. 5, until the same is high enough to permit the arm to pass beneath it into the recess behind it. The pin, being unsupported after the passage of the arm, returns to its normal position, and thus locks the lever-arm, as shown in the third view of Fig. 5, and also in Fig. 1.

60 The lever-arm may be released at any time by simply raising the locking-pin to its proper height.

The modified form of construction will now be described.

65 C, Fig. 6, represents the lever-arm, which is provided with a double-inclined face. c represents the locking-pin, which is provided with a correspondingly-inclined face.

70 c' , Fig. 11, represents a shoulder upon the locking-pin. The purpose of the double-inclined faces is to give to the end of the lever-arm a greater bearing-surface upon the pin when locked, as shown in the last view of Fig. 8. The purpose of the shoulder c' is to provide means for holding the locking-pin in a raised position, as shown in Fig. 11, when it 80 is desired to prevent the automatic action of the same.

85 The special advantages of the described construction are that it is automatic in its action, and that it is exceedingly simple in its construction.

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

90 In combination with the lever-arm having an inclined face, the vertically-moving locking-pin, provided with an inclined face.

This specification signed and witnessed this 16th day of November, 1880.

ELI H. JANNEY.

Witnesses:

JNO. MARRIOTT,
R. E. JANNEY.