

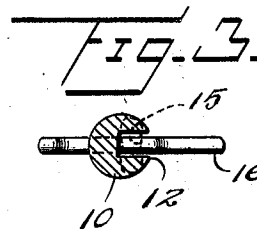
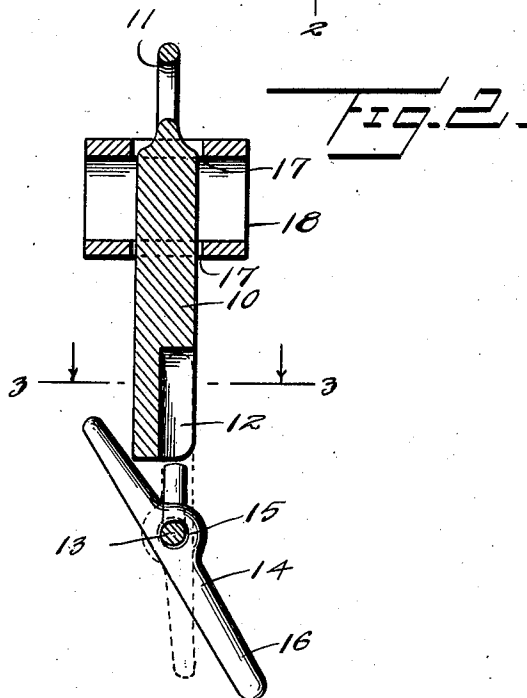
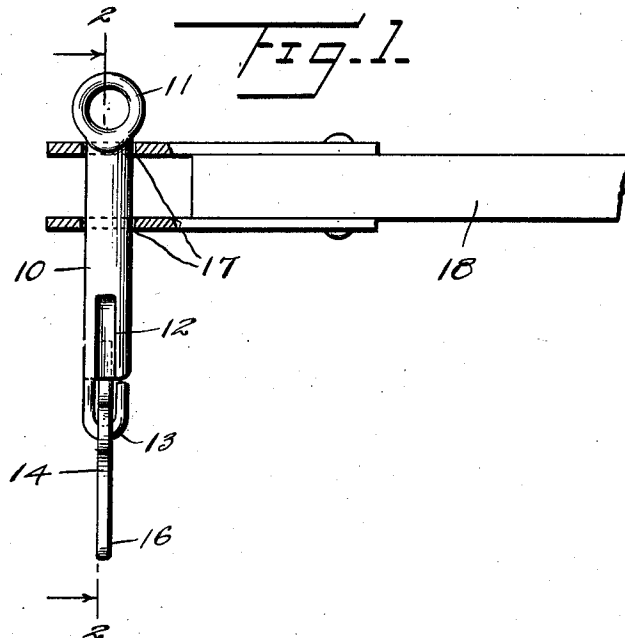
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SELF LOCKING PIN

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SELF-LOCKING PIN

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3 Claims. (Cl. 85—3)

This invention relates to a self-locking pin which may be used for instance but not necessarily, in connecting a trailing vehicle to a draft vehicle.

5 It is more particularly aimed to provide a locking pin or the equivalent having a hook on which a lock is pivoted so as to normally maintain an inclined position, the hook being eccentrically disposed on the pin and the lock being weighted at one end and the pin also having a recess therein to house the weighted part of the lock when inserting or removing the pin.

10 The more specific objects and advantages will become apparent from a consideration of the description following taken in connection with accompanying drawing illustrating an operative embodiment.

In said drawing:—

15 Figure 1 is a view showing the improved pin in elevation and as connected to draft means, the latter being fragmentary and partly in section;

20 Figure 2 is a cross sectional view taken substantially on the line 2—2 of Figure 1, and

25 Figure 3 is a horizontal sectional view taken on the line 3—3 of Figure 2.

Referring specifically to the drawing, the pin has an elongated body at 10 optionally equipped with an eyelet or head 11 at the upper end thereof. In one side of the pin at the lower end a slot or recess 12 is provided and depending from the body 10 is an integral but bendable hook 13.

30 Said hook 13 is bendable so that a lock member 14 at an opening 15, may be pivoted on the hook and the latter thereupon bent to the closed position of Figure 1. One end of the said locking member or bar 14 is weighted as at 16, so that it will normally hang in the full line position of Figure 2, with the upper end thereof engaging the lower end of the body 10. However when the pin is applied or removed, the locking member may be brought into a substantially vertical position wherein the end 16 is disposed within the recess or slot 12 as suggested by dotted lines in Figure 2.

35 By way of example the pin is shown as passing through openings 17 of a draft pole or member 18. It being clear from the foregoing, that when the pin is applied or removed through the openings 17, the locking member 14 is in the dotted line position of Figure 2 and that when the pin is in the applied position, the locking member 14 is in the full line position of Fig-

ure 2, so that it will thwart any abnormal motion or undue tendency to disengage the openings 17.

Various changes may be resorted to provided they fall within the spirit and scope of the invention. 5

I claim as my invention:—

1. A locking pin of the class described having a body, a hook depending from one end of the body, a locking bar pivoted on said hook 10 said locking bar being weighted at one end whereby its lighter end will engage the lower portion of the body, said lower portion of the body providing a stop to maintain the bar in an inclined position, and said body having a recess at the lower end open at one side thereof to receive said weighted end to permit the bar to align with the body incidental to application and removal of the pin. 15

2. A locking pin of the class described having a body, a hook depending from one end of the body, a locking bar pivoted on said hook 20 said locking bar being weighted at one end whereby its lighter end will engage the lower portion of the body, said lower portion of the body providing a stop to maintain the bar in an inclined position, and said body having a recess at the lower end open at one side thereof to receive said weighted end to permit the bar to align with the body incidental to application and removal of the pin, said hook being integral with the body and bendable so that the bar may be applied to the hook and the latter thereupon closed. 25

3. A locking pin of the class described having a body, a hook depending from one end of the body, a locking bar pivoted on said hook 30 said locking bar being weighted at one end whereby its lighter end will engage the lower portion of the body, said lower portion of the body providing a stop to maintain the bar in an inclined position, and said body having a recess at the lower end open at one side thereof to receive said weighted end to permit the bar to align with the body incidental to application and removal of the pin, said hook being integral with the body and bendable so that the bar may be applied to the hook and the latter thereupon closed, said hook being eccentrically disposed with respect to the body and having the space enclosed thereby substantially aligned with the said recess of the body. 35 40 45 50

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