M. McC. SHAW.

FENDER.

APPLICATION FILED DEC. 27, 1913.

1,149,958.

Patented Aug. 10, 1915.

3 SHEETS—SHEET 1.

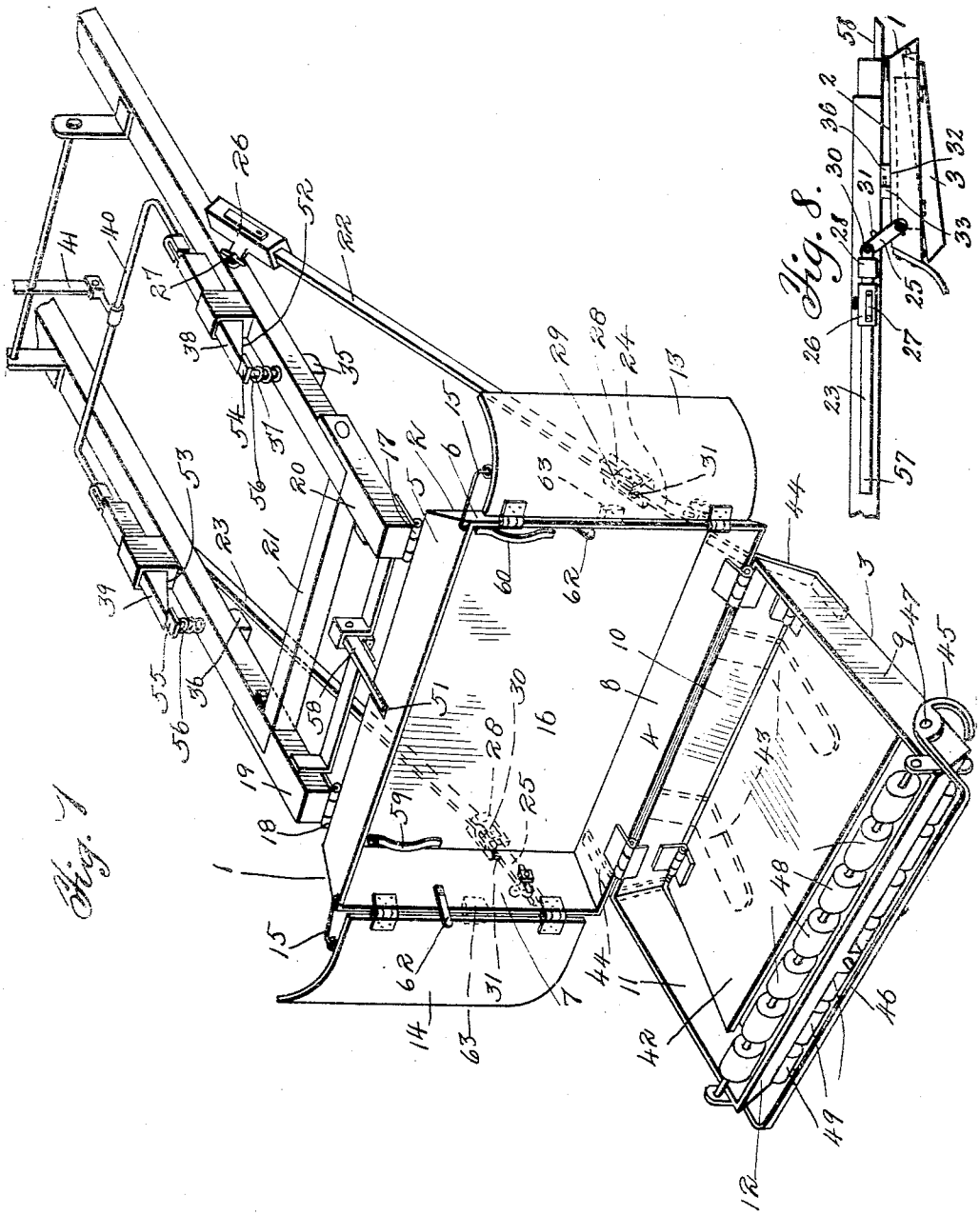


Fig. 1

Fig. 8.

Witnesses
M. C. McKee
G. C. Tracy

Inventor
M. McC. Shaw
Alex. J. Wedderburn, Jr.
Attorney

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3 SHEETS—SHEET 2.

Fig. 2.

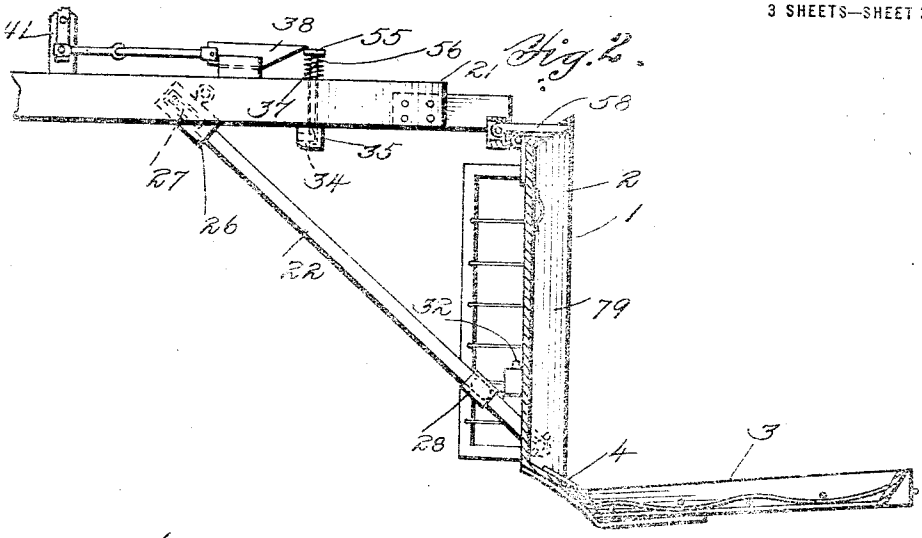
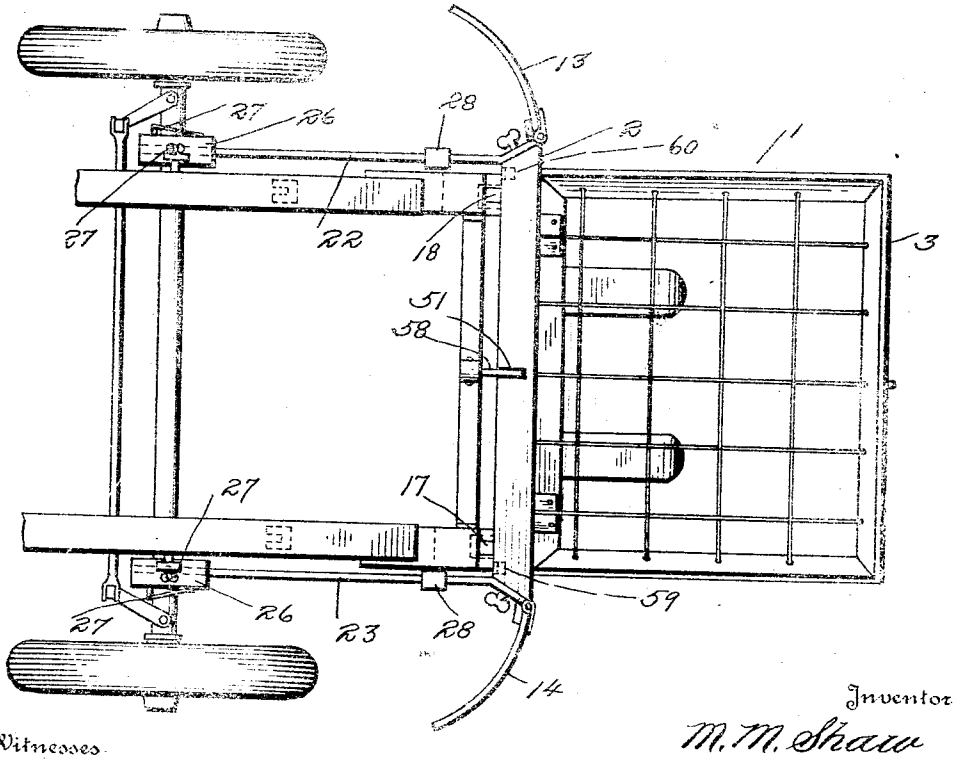


Fig. 3



Witnesses.

M. P. McKee

G. C. Tracy

Inventor

M. M. Shaw

By Alex. J. Wedderburn, Jr.

Attorney

M. McC. SHAW.

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3 SHEETS—SHEET 3.

Fig. 4.

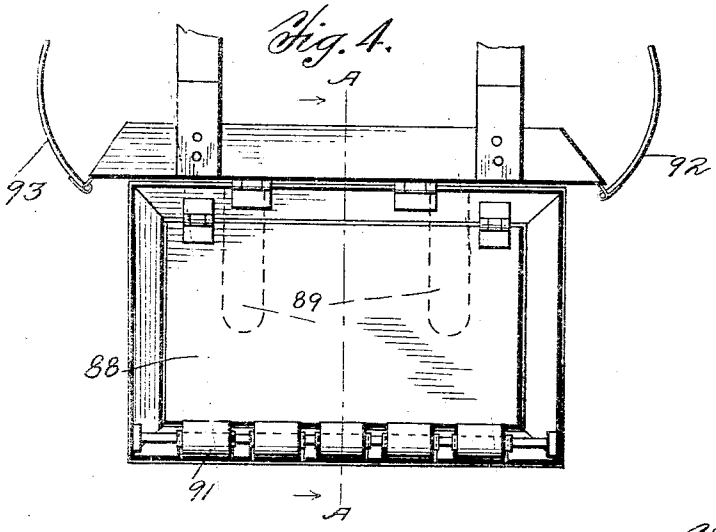


Fig. 6.

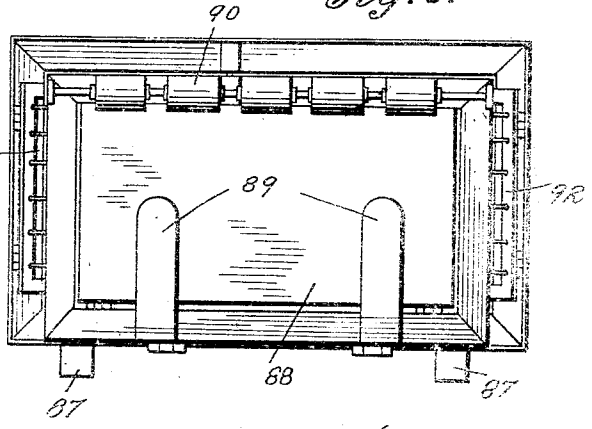


Fig. 5.

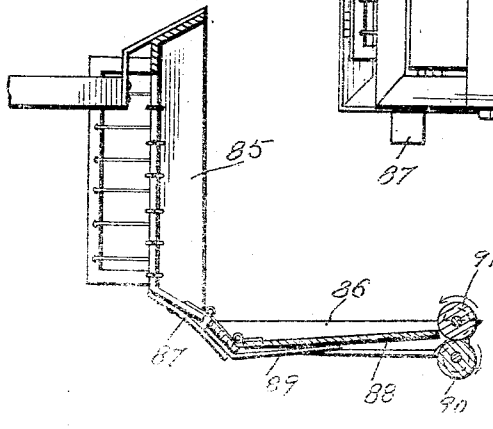
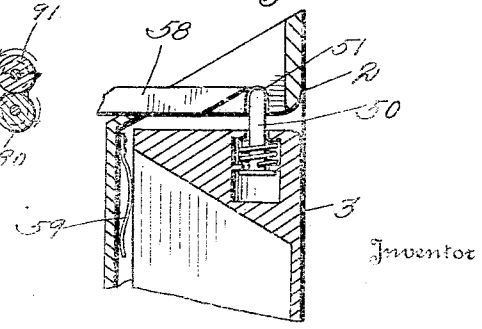


Fig. 7.



Witnesses

W. P. McKee

H. C. Tracy.

Inventor

M. McC. Shaw

By Alex J. Waddell & Son Jr.

Attorney

UNITED STATES PATENT OFFICE.

MOSES McCORMICK SHAW, OF BRADDOCK, PENNSYLVANIA.

FENDER.

1,149,958. Specification of Letters Patent. Patented Aug. 10, 1915.

Application filed December 27, 1913. Serial No. 809,117.

To all whom it may concern:

Be it known that I, MOSES M. SHAW, a citizen of the United States, residing at Braddock, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Fenders, of which the following is a specification.

This invention relates to improvements in fenders and has for its object to provide a fender adapted to be used for either a street railway car, auto truck or pleasure car.

The main object of the invention is to provide a fender having means for preventing a person caught thereon from being thrown therefrom.

Another object of the invention is to provide a fender with means for causing a person to be drawn thereon.

Still another object of the invention is to provide a fender, adapted to be folded out of the way, with means whereby it may be instantly set into an operative position.

With the above and other objects in view, I have invented the device illustrated in the accompanying drawings in which—

Figure 1 is a perspective view of my improved fender, for use on automobiles and trucks. Fig. 2 is an elevational sectional view of a modified form of the device, Fig. 3 is a top plan view of another modification, Fig. 4 is a top plan view of Fig. 6, Fig. 5 is a sectional view of another modification, Fig. 6 is an elevational view of Fig. 5 shown folded, Fig. 7 is a detail fragmental sectional view showing a latch and latch operating device, and Fig. 8 is a side elevational view of Fig. 3 shown folded.

Like reference characters indicate like parts throughout the following specification and in the several views in the drawings in which—

1 is a fender designed more particularly for use in connection with automobile pleasure cars and trucks. This style of fender which is illustrated in Fig. 1 of the drawings consists of a vertical guard member 2 and a horizontal scoop member 3 hinged thereto at its lower edge 4. The members 2 and 3 are formed with outwardly inclined sides 5, 6, 7 and 8 and 9, 10, 11 and 12. To the sides 6 and 7 of the member 2 are wheel guards 13 and 14 which may be held in fixed extended position by means of the hooks 15 or in any other suitable manner. These guards may be swung into the member 2 when it is desired, to fold the fender into an inoperative position. The rear wall 16 of the guard 2 is held by hinges 17 and 18 to brackets 19 and 20 which are bolted to the vehicle frame 21.

Brace rods 22 and 23 each have a hinged extension 24 and 25 the latter members of which are pivoted to the lower portion of the member 2, and are slidable in collars 26 swiveled to said frame and may be held against movement in said collars by set screws 27, adapted to hold the fender in a rigid operative position when in use. Collars 28 shown dotted in Fig. 1, are adapted to slide over the hinged portions 29 and 30 when in operative position so as to hold the brace rod rigid. Lugs 31 on the members 24 and 25 are adapted to hold said collars in position over said hinged portions 29 and 30.

Spring pressed pins 32 (shown in the modification illustrated in Fig. 8) seated in boxes 33, are adapted to enter slots 34 in the members 35 and 36 whereby the fender is held in a folded position under the vehicle. Spring raised releasing wedges 37 are adapted to be forced down by means of the sliding wedge members 38 and 39 simultaneously movable by the link rod 40 which is operated by a lever 41, the upper end (not shown) of which is adapted to project through the floor of a car. By means of the lever 41 the fender may be instantaneously thrown to an operative position.

The scoop 3 is provided with a bottom section 42 hinged to the side 10 and held in an upwardly inclined position by means of the leaf springs 43 so that when a person falls thereon, the shock of the fall will be absorbed by the action of said springs 43. Leaf springs 44 projecting from the bottom of the member 2 are adapted to hold the scoop 3 in a normally raised position. Should a person be thrown directly into the scoop 3 his weight will cause the outer end thereof to lower, causing the arcuate ends 45 of the front guard 46 pivoted at 47, to contact the ground and slide on its arcuate surface in such a manner that the guard 46 is swung to a vertical position whereby the person will be guarded from rebounding from the scoop. However if the person should fall only partly onto the fender the upward movement of the guard 46 will act

to throw him farther into the scoop and the rollers 48 contacting and operated by the rollers 49 which are rotated by engagement with the ground, will have a tendency to draw the person into the scoop.

The spring pressed pin 50 is adapted to enter the slot 51 whereby the scoop 3 may be held folded against the guard 2 and wheel guards 13 and 14 when the fender is in a folded position.

The operation of the device is as follows: if the fender is folded under the car viz: By throwing the lever 41 the members 38 and 39 having inclined surfaces 52 and 53 slide over the heads 54 and 55 of the wedge members 37 forcing them down against the tension of the springs 56 causing them to drive the pins out of the slots 34 whereupon the weight of the fender will cause it to fall with sufficient force to cause the brace rods 22 and 23 to slide through their collars 26 until the spring latches 27 engage the free ends 57 thereof and at the same time the collars 28 will slide into position over the knuckles 29 and 30 thus causing said rods to maintain a rigid position. This throws the guard 2 into a vertical position permitting the rigid rod 58 to enter the slot 51. The pin 50 being pressed down by said rod 58 permits the scoop member 3 to be thrown out of its folded position by the springs 59 and 60, and the wheel guards 13 and 14 thrown out by the springs 61 and 62. Stops 63 (shown dotted in Fig. 1) engage the sides 6 and 7 to hold the members 13 and 14 against too great a rearward movement.

In Figs. 2, 3 and 4 the construction is similar to that shown in Figs. 4 and 5 and has added thereto the mechanism for holding the fender folded under a car, the vertical guard 79 being hinged as in Fig. 1.

Figs. 4, 5 and 6 show a rigid guard 85 having a scoop 86 hinged thereto and normally held in a horizontal position by springs 87. This scoop is provided with a hinged bottom 88 supported in an upwardly inclined position by means of springs 89. Resilient rollers 90 adapted to be rotated in the direction of the arrow by contact with the ground rotate the rollers 91 in an opposing direction, also indicated by another arrow. The rollers 90 absorb the shock to some extent thus assisting the springs 89 in breaking the blow of a fall thereon and the rollers 91 will act to drag a person onto the fender. This device is also provided with wheel guards 92 and 93.

Having now described my invention, that which I claim to be new and desire to procure by Letters Patent is:—

1. In combination with a vehicle, a fender embracing a vertical guard hinged to said vehicle, a scoop, brace rods connecting said vehicle and guard, and collars pivoted to said vehicle through which said rods are adapted to slide.

2. In combination with a vehicle, a fender embracing a vertical guard hinged to said vehicle, a scoop, brace rods connecting said vehicle and guard, collars pivoted to said vehicle through which said rods are adapted to slide, and wheel guards hinged to said guard.

3. In combination with a vehicle, a fender embracing a vertical guard hinged to said vehicle, a scoop, brace rods connecting said vehicle and guard, collars pivoted to said vehicle through which said rods are adapted to slide, and wheel guards hinged to said guard, said guards being adapted to fold within said guard.

4. In combination with a vehicle, a fender embracing a vertical guard hinged to said vehicle, a scoop, brace rods connecting said vehicle and guard, collars pivoted to said vehicle through which said rods are adapted to slide, and wheel guards hinged to said guard, said guards being adapted to fold within said guard, and said scoop being adapted to fold against said guards.

5. In combination with a vehicle, a fender embracing a vertical guard hinged to said vehicle, a scoop, brace rods connecting said vehicle and guard, collars pivoted to said vehicle through which said rods are adapted to slide, wheel guards hinged to said guard, said guards being adapted to fold within said guard, said scoop being adapted to fold against said guards, and means for holding said scoop horizontally disposed.

6. In combination with a vehicle, a fender embracing a vertical guard hinged to said vehicle, a scoop, brace rods connecting said vehicle and guard, collars pivoted to said vehicle through which said rods are adapted to slide, wheel guards hinged to said guard, said guards being adapted to fold within said guard, said scoop being adapted to fold against said guards, and means for holding said scoop horizontally disposed, said means consisting of springs.

7. In combination with a vehicle, a fender embracing a vertical guard hinged to said vehicle, a scoop, brace rods connecting said vehicle and guard, collars pivoted to said vehicle through which said rods are adapted to slide, wheel guards hinged to said guard, said guards being adapted to fold within said guard, said scoop being adapted to fold against said guards, means for holding said scoop horizontally disposed, and a resiliently inclined bottom in said scoop.

8. In combination with a vehicle, a fender embracing a vertical guard hinged to said vehicle, a scoop, brace rods connecting said vehicle and guard, collars pivoted to said vehicle through which said rods are adapted to slide, wheel guards hinged to said guard, said guards being adapted to fold within

said guard, said scoop being adapted to fold against said guards, means for holding said scoop horizontally disposed, a resiliently inclined bottom in said scoop, and rollers operating toward said bottom.

9. In combination with a vehicle, a fender embracing a vertical guard hinged to said vehicle and a scoop, brace rods connecting said vehicle and guard, collars pivoted to said vehicle through which said rods are adapted to slide, wheel guards hinged to said guard, said guards being adapted to fold within said guard, said scoop being adapted to fold against said guards, means for holding said scoop horizontally disposed, a resiliently inclined bottom in said scoop, rollers operating toward said bottom, and means for holding said fender folded.

10. In combination with a vehicle, a fender embracing a vertical guard having a horizontally disposed scoop connected thereto, said guard being hingedly connected to said vehicle, a resilient means whereby said scope may be held in a substantially horizontal position, said scoop having a hinged bottom, resilient means for holding said bottom in an inclined position, wheel guards hingedly connected to said vertical guard, said wheel guards being adapted to be folded within said vertical guard, said means consisting of brace rods, each of said brace rods being formed in two hingedly-connected sections, means whereby said hinged portion may be held rigid, and swivel collars through which said rods are adapted to slide.

11. In combination with a vehicle, a fender embracing a vertical guard having a horizontally disposed scoop connected thereto, said guard being hingedly connected to said vehicle, a resilient means whereby said scoop may be held in a substantially horizontal position, said scoop having a hinged bottom, resilient means for holding said bottom in an inclined position, wheel guards hingedly connected to said vertical guard, said wheel guards being adapted to be folded within said vertical guard, said means consisting of brace rods, each of said brace rods being formed in two hingedly-connected sections, means whereby said hinged portion may be held rigid, swivel collars through which said rods are adapted to slide, and means on said collars whereby said rods may be held in rigid extended position.

12. In combination with a vehicle, a fender embracing a vertical guard having a horizontally disposed scoop connected thereto, said guard being hingedly connected to said vehicle, a resilient means whereby said scoop may be held in a substantially horizontal position, said scoop having a hinged bottom, resilient means for holding said bottom in an inclined position, wheel guards hingedly connected to said vertical guard, said wheel guards being adapted to be folded within said vertical guard, said means consisting of brace rods, each of said brace rods being formed in two hingedly-connected sections, means whereby said hinged portion may be held rigid, swivel collars through which said rods are adapted to slide, and means on said collars whereby said rods may be held in rigid extended position, said scoop being adapted to be folded against said wheel guards and said vertical guard.

13. In combination with a vehicle, a fender embracing a vertical guard having a horizontally disposed scoop connected thereto, said guard being hingedly connected to said vehicle, a resilient means whereby said scoop may be held in a substantially horizontal position, said scoop having a hinged bottom, resilient means for holding said bottom in an inclined position, wheel guards hingedly connected to said vertical guard, said wheel guards being adapted to be folded within said vertical guard, said means consisting of brace rods, each of said brace rods being formed in two hingedly-connected sections, means whereby said hinged portion may be held rigid, swivel collars through which said rods are adapted to slide, means on said collars whereby said rods may be held in rigid extended position, said scoop being adapted to be folded against said wheel guards and said vertical guard, and means whereby said fender may be folded into a substantially horizontal position under said vehicle.

14. In combination with a vehicle, a fender embracing a vertical guard having a horizontally disposed scoop connected thereto, said guard being hingedly connected to said vehicle, a resilient means whereby said scoop may be held in a substantially horizontal position, said scoop having a hinged bottom, resilient means for holding said bottom in an inclined position, wheel guards hingedly connected to said vertical guard, said wheel guards being adapted to be folded within said vertical guard, said means consisting of brace rods, each of said brace rods being formed in two hingedly-connected sections, means whereby said hinged portion may be held rigid, swivel collars through which said rods are adapted to slide, means on said collars whereby said rods may be held in rigid extended position, said scoop being adapted to be folded against said wheel guards and said vertical guard, means whereby said fender may be folded into a substantially horizontal position under said vehicle, and means whereby said fender may be instantly dropped to an operative position.

15. In combination with a vehicle, a fender embracing a vertical guard having

a horizontally disposed scoop connected thereto, said guard being hingedly connected to said vehicle, a resilient means whereby said scoop may be held in a substantially horizontal position, said scoop having a hinged bottom, resilient means for holding said bottom in an inclined position, wheel guards hingedly connected to said vertical guard, said wheel guards being adapted to be folded within said vertical guard, said means consisting of brace rods, each of said brace rods being formed in two hingedly-connected sections, means whereby said hinged portion may be held rigid, swivel collars through which said rods are adapted to slide, means on said collars whereby said rods may be held in rigid extended position, said scoop being adapted to be folded against said wheel guards and said vertical guard, means whereby said fender may be folded into a substantially horizontal position under said vehicle, means whereby said fender may be instantly dropped to an operative position, and a hand controlled lever adapted to operate said last named means.

16. In combination with a vehicle, a fender embracing a vertical guard having a horizontally disposed scoop connected thereto, said guard being hingedly connected to said vehicle, a resilient means whereby said scoop may be held in a substantially horizontal position, said scoop having a hinged bottom, resilient means for holding said bottom in an inclined position, wheel guards hingedly connected to said vertical guard, said wheel guards being adapted to be folded within said vertical guard, said means consisting of brace rods, each of said brace rods being formed in two hingedly-connected sections, means whereby said hinged portion may be held rigid, swivel collars through which said rods are adapted to slide, means on said collars whereby said rods may be held in rigid extended position, said scoop being adapted to be folded against said wheel guards and said vertical guard, means whereby said fender may be folded into a substantially horizontal position under said vehicle, means whereby said fender may be instantly dropped to an operative position, and a hand controlled lever adapted to operate said last named means, said scoop and vertical guard having outwardly inclined walls.

17. In combination with a vehicle, a fender embracing a vertical guard having a horizontally disposed scoop connected thereto, said guard being hingedly connected to said vehicle, a resilient means whereby said scoop may be held in a substantially horizontal position, said scoop having a hinged bottom, resilient means for holding said bottom in an inclined position, wheel guards hingedly connected to said vertical guard, said wheel guards being adapted to be folded within said vertical guard, said means consisting of brace rods, each of said brace rods being formed in two hingedly-connected sections, means whereby said hinged portion may be held rigid, swivel collars through which said rods are adapted to slide, means on said collars whereby said rods may be held in rigid extended position, said scoop being adapted to be folded against said wheel guards and said vertical guard, means whereby said fender may be folded into a substantially horizontal position under said vehicle, means whereby said fender may be instantly dropped to an operative position, a hand controlled lever adapted to operate said last named means, said scoop and vertical guard having outwardly inclined walls, and rollers mounted on the forward end of said scoop adapted to be rotated toward the rear of said scoop.

18. In combination with a vehicle, a fender embracing a vertical guard having a horizontally disposed scoop connected thereto, said guard being hingedly connected to said vehicle, a resilient means whereby said scoop may be held in a substantially horizontal position, said scoop having a hinged bottom, resilient means for holding said bottom in an inclined position, wheel guards hingedly connected to said vertical guard, said wheel guards being adapted to be folded within said vertical guard, said means consisting of brace rods, each of said brace rods being formed in two hingedly-connected sections, means whereby said hinged portion may be held rigid, swivel collars through which said rods are adapted to slide, means on said collars whereby said rods may be held in rigid extended position, said scoop being adapted to be folded against said wheel guards and said vertical guard, means whereby said fender may be folded into a substantially horizontal position under said vehicle, means whereby said fender may be instantly dropped to an operative position, a hand controlled lever adapted to operate said last named means, said scoop and vertical guard having outwardly inclined walls, and rollers mounted on the forward end of said scoop adapted to be rotated toward the rear of said scoop, and means whereby said rollers are rotated.

19. In combination with a vehicle, a fender embracing a vertical guard having a horizontally disposed scoop connected thereto, said guard being hingedly connected to said vehicle, a resilient means whereby said scoop may be held in a substantially horizontal position, said scoop having a hinged bottom, resilient means for holding said bottom in an inclined position, wheel guards hingedly connected to said vertical guard, said wheel guards being adapted to be folded within said vertical guard, said means

consisting of brace rods, each of said brace rods being formed in two hingedly-connected sections, means whereby said hinged portion may be held rigid, swivel collars through which said rods are adapted to slide, means on said collars whereby said rods may be held in rigid extended position, said scoop being adapted to be folded against said wheel guards and said vertical guard, means whereby said fender may be folded into a substantially horizontal position under said vehicle, means whereby said fender may be instantly dropped to an operative position, a hand controlled lever adapted to operate said last named means, said scoop and vertical guard having outwardly inclined walls, rollers mounted on the forward end of said scoop adapted to be rotated toward the rear of said scoop, and means whereby said rollers are rotated, said means consisting of rollers contacting said first rollers and adapted to contact the ground.

20. In combination with a vehicle, a fender embracing a vertical guard having a horizontally disposed scoop connected thereto, said guard being hingedly connected to said vehicle, a resilient means whereby said scoop may be held in a substantially horizontal position, said scoop having a hinged bottom, resilient means for holding said bottom in an inclined position, wheel guards hingedly connected to said vertical guard, said wheel guards being adapted to be folded within said vertical guard, said means consisting of brace rods, each of said brace rods being formed in two hingedly-connected sections, means whereby said hinged portion may be held rigid, swivel collars through which said rods are adapted to slide, means on said collars whereby said rods may be held in rigid extended position, said scoop being adapted to be folded against said wheel guards and said vertical guard, means whereby said fender may be folded into a substantially horizontal position under said vehicle, means whereby said fender may be instantly dropped to an operative position, a hand controlled lever adapted to operate said last named means, said scoop and vertical guard having outwardly inclined walls, rollers mounted on the forward end of said scoop adapted to be rotated toward the rear of said scoop, means whereby said rollers are rotated, said means consisting of rollers contacting said first rollers and adapted to contact the ground, and a normally horizontally disposed guard mounted on the front of said scoop.

21. In combination with a vehicle, a fender embracing a vertical guard having a horizontally disposed scoop connected thereto, said guard being hingedly connected to said vehicle, a resilient means whereby said scoop may be held in a substantially horizontal position, said scoop having a hinged bottom, resilient means for holding said bottom in an inclined position, wheel guards hingedly connected to said vertical guard, said wheel guards being adapted to be folded within said vertical guard, said means consisting of brace rods, each of said brace rods being formed in two hingedly-connected sections, means whereby said hinged portion may be held rigid, swivel collars through which said rods are adapted to slide, means on said collars whereby said rods may be held in rigid extended position, said scoop being adapted to be folded against said wheel guards and said vertical guard, means whereby said fender may be folded into a substantially horizontal position under said vehicle, means whereby said fender may be instantly dropped to an operative position, a hand controlled lever adapted to operate said last named means, said scoop and vertical guard having outwardly inclined walls, rollers mounted on the forward end of said scoop adapted to be rotated toward the rear of said scoop, means whereby said rollers are rotated, said means consisting of rollers contacting said first rollers and adapted to contact the ground, a normally horizontally disposed guard mounted on the front of said scoop, and means whereby said guard may be raised to a vertical position.

22. In combination with a vehicle, a fender embracing a vertical guard having a horizontally disposed scoop connected thereto, said guard being hingedly connected to said vehicle, a resilient means whereby said scoop may be held in a substantially horizontal position, said scoop having a hinged bottom, resilient means for holding said bottom in an inclined position, wheel guards hingedly connected to said vertical guard, said wheel guards being adapted to be folded within said vertical guard, said means consisting of brace rods, each of said brace rods being formed in two hingedly-connected sections, means whereby said hinged portion may be held rigid, swivel collars through which said rods are adapted to slide, means on said collars whereby said rods may be held in rigid extended position, said scoop being adapted to be folded against said wheel guards and said vertical guard, means whereby said fender may be folded into a substantially horizontal position under said vehicle, means whereby said fender may be instantly dropped to an operative position, a hand controlled lever adapted to operate said last named means, said scoop and vertical guard having outwardly inclined walls, rollers mounted on the forward end of said scoop adapted to be rotated toward the rear of said scoop, means whereby said rollers are rotated, said means consisting of rollers contacting said first

rollers and adapted to contact the ground, a normally horizontally disposed guard mounted on the front of said scoop, and means whereby said guard may be raised to a vertical position, said means consisting of arcuate members formed on the opposing ends of said front guard.

23. A fender embracing a guard and frame hingedly connected, and a bottom hinged within said frame adjacent said connection.

24. A fender embracing a guard and frame hingedly connected, and a bottom hinged within said frame adjacent said connection and means on said frame for resiliently supporting said bottom.

25. A fender embracing a guard and frame hingedly connected, and a bottom hinged within said frame adjacent said connection and means on said frame for resiliently supporting said bottom in an inclined position.

26. A fender consisting of a vertical guard, a scoop hinged thereto, said scoop consisting of a frame and a bottom, said bottom being hingedly mounted in said frame, means whereby said bottom is held inclined, said means consisting of springs whereby said bottom will give to a weight, said springs being connected to said frame.

27. A fender consisting of a vertical guard and a scoop hinged thereto, said scoop consisting of a frame and a bottom, said bottom being hingedly mounted in said frame, means whereby said bottom is held inclined, said means consisting of springs whereby said bottom will give to a weight and said springs being connected to said frame and projecting under said bottom.

28. In combination with a vehicle, a fender embracing a vertical guard hinged to said vehicle and a scoop, brace rods connecting said vehicle and guard, collars pivoted to said vehicle through which said rods are adapted to slide, wheel guards hinged to said guard, said guards being adapted to fold within said guard, said scoop being adapted to fold against said guards, means for holding said scoop horizontally disposed, a resiliently inclined bottom in said scoop, rollers operating toward said bottom, means for holding said fender folded, and means for instantly setting said fender in operative position.

29. In combination with a vehicle, a fender embracing a vertical guard hinged to said vehicle and a scoop, brace rods connecting said vehicle and guard, collars pivoted to said vehicle through which said rods are adapted to slide, and means whereby said fender may be held folded under said vehicle.

30. In combination with a vehicle, a fender embracing a vertical guard hinged to said vehicle and a scoop, brace rods connecting said vehicle and guard, collars pivoted to said vehicle through which said rods are adapted to slide, means whereby said fender may be held folded under said vehicle, and means whereby said fender may be instantly set in operative position.

31. In combination with a vehicle, a fender embracing a vertical guard hinged to said vehicle and a scoop, brace rods connecting said vehicle and guard, collars pivoted to said vehicle through which said rods are adapted to slide, wheel guards hinged to said guard, means whereby said wheel guards may be held folded within said guard and means whereby said fender may be held horizontally folded.

32. In combination with a vehicle, a fender embracing a vertical guard hinged to said vehicle and a scoop, brace rods connecting said vehicle and guard, collars pivoted to said vehicle through which said rods are adapted to slide, wheel guards hinged to said guards, means whereby said wheel guards may be held folded within said guard and means whereby said fender may be held horizontally folded said first means embracing said scoop.

33. In combination with a vehicle, a fender embracing a vertical guard hinged to said vehicle and a scoop, brace rods connecting said vehicle and guard, collars pivoted to said vehicle through which said rods are adapted to slide, wheel guards hinged to said guard, means whereby said wheel guards may be held folded within said guards, means whereby said fender may be held horizontally folded, said first means embracing said scoop, and means for automatically releasing said last means when said guard is vertically disposed.

34. A fender consisting of a vertical guard and a scoop hinged thereto, said scoop consisting of a frame and a bottom, said bottom being hingedly mounted in said frame and means whereby said bottom and frame are held resiliently inclined.

35. A fender consisting of a vertical guard and a scoop hinged thereto, said scoop consisting of a frame and a bottom, said bottom being hingedly mounted in said frame, means whereby said bottom is held resiliently inclined and means for holding said frame in a normally horizontal position.

36. A fender consisting of a vertical guard and a scoop hinged thereto, said scoop consisting of a frame and a bottom, said bottom being hingedly mounted in said frame, means whereby said bottom is held resiliently inclined and means for holding said frame in a normally horizontal position, said last means consisting of springs mounted upon said guard.

37. A fender consisting of a vertical guard and a scoop hinged thereto, said scoop consisting of a frame and a bottom, said bottom being hingedly mounted in said

frame, means whereby said bottom is held resiliently inclined, means for holding said frame in a normally horizontal position and means for holding said scoop folded against said guard.

38. A fender consisting of a vertical guard and a scoop hinged thereto, said scoop consisting of a frame and a bottom, said bottom being hingedly mounted in said frame, means whereby said bottom is held resiliently inclined, means for holding said frame in a normally horizontal position, means for holding said scoop folded against said guard and means whereby said last means may be automatically released.

39. A fender consisting of a vertical guard and a scoop hinged thereto, said scoop consisting of a frame and a bottom, said bottom being hingedly mounted in said frame, means whereby said bottom is held resiliently inclined, means for holding said frame in a normally horizontal position and means for holding said scoop folded against said guard, said guard being hingedly connected to a vehicle.

40. A fender consisting of a vertical guard and a scoop hinged thereto, said scoop consisting of a frame and a bottom, said bottom being hingedly mounted in said frame, means whereby said bottom is held resiliently inclined, means for holding said frame in a normally horizontal position, means for holding said scoop folded against said guard, said guard being hingedly connected to a vehicle and means for holding said fender folded under said vehicle.

41. A fender consisting of a vertical guard and a scoop hinged thereto, said scoop consisting of a frame and a bottom and said bottom being hingedly mounted in said frame, means whereby said bottom is held resiliently inclined, means for holding said frame in a normally horizontal position, means for holding said scoop folded against said guard, said guard being hingedly connected to a vehicle, means for holding said fender folded under said vehicle and means for automatically releasing said guard from a folded position.

42. A fender consisting of a vertical guard and a scoop hinged thereto, said scoop consisting of a frame and a bottom, said bottom being hingedly mounted in said frame, means whereby said bottom is held resiliently inclined, means for holding said frame in a normally horizontal position, means for holding said scoop folded against said guard, said guard being hingedly connected to a vehicle, means for holding said fender folded under said vehicle, means for automatically releasing said guard from a folded position and means whereby said guard will assume an operative position.

43. A fender consisting of a vertical guard and a scoop hinged thereto, said scoop consisting of a frame and a bottom, said bottom being held resiliently inclined, means for holding said frame in a normally horizontal position, means for holding said scoop folded against said guard, said guard being hingedly connected to a vehicle, means for holding said fender folded under said vehicle, means for automatically releasing said guard from a folded position, means whereby said guard will assume an operative position and means whereby said guard may be held in a rigid operative position.

44. A fender consisting of a vertical guard and a scoop hinged thereto, said scoop consisting of a frame and a bottom, said bottom being held resiliently inclined, means for holding said frame in a normally horizontal position, means for holding said scoop folded against said guard, said guard being hingedly connected to a vehicle, means for holding said fender folded under said vehicle, means for automatically releasing said guard from a folded position, means whereby said guard will assume an operative position and means whereby said guard may be held in a rigid operative position, said last means consisting of brace rods.

45. A fender consisting of a vertical guard and a scoop hinged thereto, said scoop consisting of a frame and a bottom, said bottom being held resiliently inclined, means for holding said frame in a normally horizontal position, means for holding said scoop folded against said guard, said guard being hingedly connected to a vehicle, means for holding said fender folded under said vehicle, means for automatically releasing said guard from a folded position, means whereby said guard will assume an operative position and means whereby said guard may be held in a rigid operative position, said last means consisting of brace rods, said rods being jointed.

46. A fender consisting of a vertical guard and a scoop hinged thereto, said scoop consisting of a frame and a bottom, said bottom being held resiliently inclined, means for holding said frame in a normally horizontal position, means for holding said scoop folded against said guard, said guard being hingedly connected to a vehicle, means for holding said fender folded under said vehicle, means for automatically releasing said guard from a folded position, means whereby said guard will assume an operative position, means whereby said guard may be held in a rigid operative position, said last means consisting of brace rods, said rods being jointed, and means for holding said joints rigid.

47. A fender consisting of a vertical guard and a scoop hinged thereto, said scoop consisting of a frame and a bottom, said bottom being held resiliently inclined, means for holding said frame in a normally horizontal position, means for holding said scoop folded against said guard, said guard being hingedly connected to a vehicle, means for holding said fender folded under said vehicle, means for automatically releasing said guard from a folded position, means whereby said guard will assume an operative position, said last means consisting of brace rods, said rods being jointed and means for holding said joints rigid, said last means consisting of slidable collars.

48. A fender consisting of a vertical guard and a scoop hinged thereto, said scoop consisting of a frame and a bottom, said bottom being held resiliently inclined, means for holding said frame in a normally horizontal position, means for holding said scoop folded against said guard, said guard being hingedly connected to a vehicle, means for holding said fender folded under said vehicle, means for automatically releasing said guard from a folded position, means whereby said guard will assume an operative position, said last means consisting of brace rods, said rods being jointed and means for holding said joints rigid, said last means consisting of slidable collars, said collars being gravity actuated.

49. A fender consisting of a vertical guard and a scoop hinged thereto, said scoop consisting of a frame and a bottom, said bottom being held resiliently inclined, means for holding said frame in a normally horizontal position, means for holding said scoop folded against said guard, said guard being hingedly connected to a vehicle, means for holding said fender folded under said vehicle, means for automatically releasing said guard from a folded position, means whereby said guard will assume an operative position, said last means consisting of brace rods, said rods being jointed and means for holding said joints rigid, said last means consisting of slidable collars, said collars being gravity actuated and wheel guards hinged to said guard.

50. A fender consisting of a vertical guard and a scoop hinged thereto, said scoop consisting of a frame and a bottom, said bottom being held resiliently inclined, means for holding said frame in a normally horizontal position, means for holding said scoop folded against said guard, said guard being hingedly connected to a vehicle, means for holding said fender folded under said vehicle, means for automatically releasing said guard from a folded position, means whereby said guard will assume an operative position, said last means consisting of brace rods, said rods being jointed and means for holding said joints rigid, said last means consisting of slidable collars, said collars being gravity actuated and wheel guards hinged to said guards, said guards being spring actuated.

51. A fender consisting of a vertical guard and a scoop hinged thereto, said scoop consisting of a frame and a bottom, said bottom being held resiliently inclined, means for holding said frame in a normally horizontal position, means for holding said scoop folded against said guard, said guard being hingedly connected to a vehicle, means for holding said fender folded under said vehicle, means for automatically releasing said guard from a folded position, means whereby said guard will assume an operative position, said last means consisting of brace rods, said rods being jointed and means for holding said joints rigid, said last means consisting of slidable collars, said collars being gravity actuated, wheel guards hinged to said guards, said guard being spring actuated and means for holding said last guard in a rigid operative position.

52. A fender consisting of a vertical guard and a scoop hinged thereto, said scoop consisting of a frame and a bottom, said bottom being held resiliently inclined, means for holding said frame in a normally horizontal position, means for holding said scoop folded against said guard, said guard being hingedly connected to a vehicle, means for holding said fender folded under said vehicle, means for automatically releasing said guard from a folded position, means whereby said guard will assume an operative position, said last means consisting of brace rods, said rods being jointed and means for holding said joints rigid, said last means consisting of slidable collars, said collars being gravity actuated, wheel guards hinged to said guard, said guards being spring actuated and means for holding said last guard in a rigid operative position, said guards being foldable between said scoop and guard.

53. In combination with a vehicle, a fender hingedly connected thereto, said fender consisting of a vertical guard and a scoop resiliently connected to said guard, said scoop consisting of a frame and a bottom hingedly mounted thereon and means whereby said bottom is held resiliently inclined.

54. In combination with a vehicle, a fender hingedly connected thereto, said fender consisting of a vertical guard and a scoop resiliently connected to said guard, said scoop consisting of a frame and a bottom hingedly mounted thereon and means whereby said bottom is held resiliently in-

clined and means for holding said fender in a folded horizontal position under said vehicle.

55. In combination with a vehicle, a fender hingedly connected thereto, said fender consisting of a vertical guard and a scoop resiliently connected to said guard, said scoop consisting of a frame and a bottom hingedly mounted thereon and means whereby said bottom is held resiliently inclined, means for holding said fender in a folded horizontal position under said vehicle and means for releasing said fender from its folded position whereby it will fall to an operative position.

56. In combination with a vehicle, a fender hingedly connected thereto, said fender consisting of a vertical guard and a scoop resiliently connected to said guard, said scoop consisting of a frame and a bottom hingedly mounted thereon and means whereby said bottom is held resiliently inclined, means for holding said fender in a folded horizontal position under said vehicle, means for releasing said fender from its folded position whereby it will fall to an operative position and means for automatically setting said guard in a rigid operative position.

57. In combination with a vehicle, a fender hingedly connected thereto, said fender consisting of a vertical guard and a scoop resiliently connected to said guard, said scoop consisting of a frame and a bottom hingedly mounted thereon and means whereby said bottom is held resiliently inclined, means for holding said fender in a folded horizontal position under said vehicle, means for releasing said fender from its folded position whereby it will fall to an operative position, means for automatically setting said guard in a rigid operative position and means for automatically releasing said scoop from a folded position.

58. In combination with a vehicle, a fender hingedly connected thereto, said fender consisting of a vertical guard and a scoop resiliently connected to said guard, said scoop consisting of a frame and a bottom hingedly mounted thereon and means whereby said bottom is held resiliently inclined, means for holding said fender in a folded horizontal position under said vehicle, means for releasing said fender from its folded position whereby it will fall to an operative position and means for automatically setting said guard in a rigid operative position, said last means consisting of braces connected to said fender and said vehicle.

59. In combination with a vehicle, a fender hingedly connected thereto, said fender consisting of a vertical guard and a scoop resiliently connected to said guard, said scoop consisting of a frame and a bottom hingedly mounted thereon and means whereby said bottom is held resiliently inclined, means for holding said fender in a folded horizontal position under said vehicle, means for releasing said fender from its folded position whereby it will fall to an operative position, means for automatically setting said guard in a rigid operative position, said last means consisting of braces connected to said fender and said vehicle and pivotally mounted collars on said vehicle through which said braces are slidable.

60. In combination with a vehicle, a fender hingedly connected thereto, said fender consisting of a vertical guard, and a scoop resiliently connected to said guard, said scoop consisting of a frame and a bottom hingedly mounted thereon and means whereby said bottom is held resiliently inclined, means for holding said fender in a folded horizontal position under said vehicle, means for releasing said fender from its folded position whereby it will fall to an operative position, means for automatically setting said guard in a rigid operative position, said last means consisting of braces connected to said fender and said vehicle and pivotally mounted collars on said vehicle through which said braces are slidable, said holding means consisting of pins.

61. In combination with a vehicle, a fender hingedly connected thereto, said fender consisting of a vertical guard, and a scoop resiliently connected to said guard, said scoop consisting of a frame and a bottom hingedly mounted thereon and means whereby said bottom is held resiliently inclined, means for holding said fender in a folded horizontal position under said vehicle, means for releasing said fender from its folded position whereby it will fall to an operative position, means for automatically setting said guard in a rigid operative position and means for automatically releasing said scoop from a folded position, said last means consisting of lever operated slides.

62. A fender embracing a guard and frame hingedly connected, and a bottom hinged within said frame adjacent said connection, means on said frame for resiliently supporting said bottom in an inclined position and said means being adjacent said hinged parts.

63. A fender embracing a guard and frame hingedly connected, and a bottom hinged within said frame adjacent said connection, means on said frame for resiliently supporting said bottom in an inclined position, said means being adjacent said hinged parts and consisting of leaf springs.

64. A fender embracing a guard and frame hingedly connected, and a bottom hinged within said frame adjacent said con-

nection, means on said frame for resiliently supporting said bottom in an inclined position, said means being adjacent said hinged parts, and consisting of leaf springs and said guard being vertical and said frame normally horizontal.

In testimony whereof I affix my signature in presence of two witnesses.

MOSES McCORMICK SHAW.

Witnesses:
J. J. GRIFFITH,
R. A. PRICE.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."