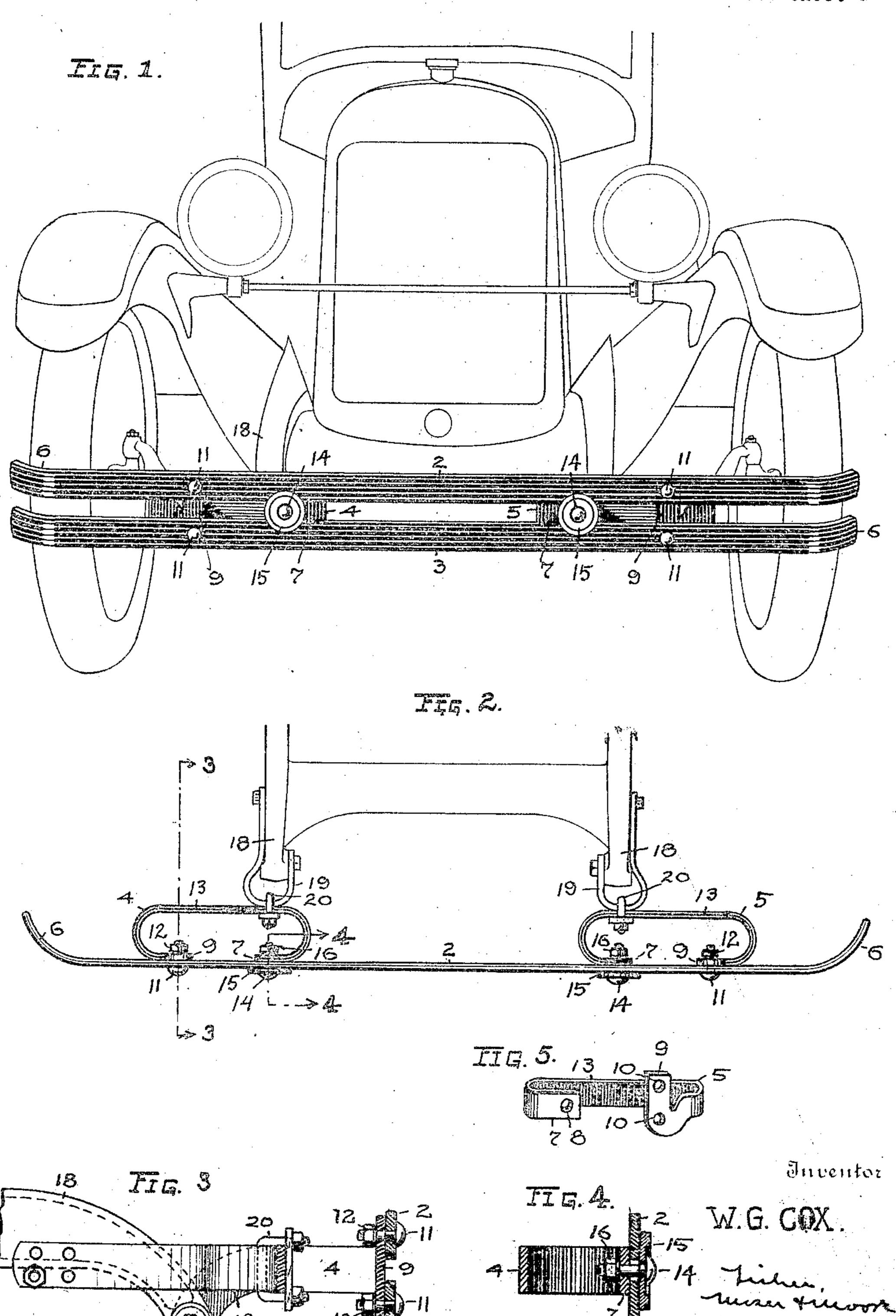
W. G. COX

SHOCK ABSORBING FENDER

Filed March 5, 1923

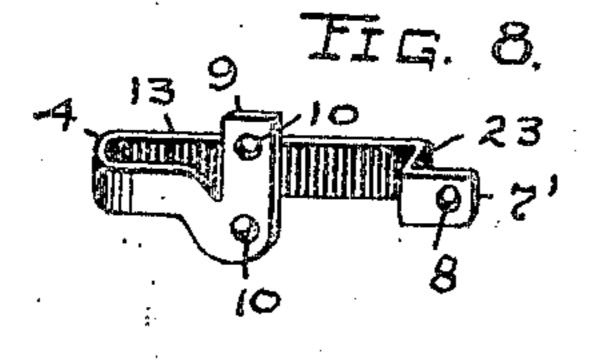
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SHOCK ABSORBING FENDER

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Attorneys

STATES PATENT OFFICE.

WILLIAM G. COX. OF CLEVELAND, OHIO.

SHOCK-ABSORBING

Application filed March 5, 1923. Serial No. 822,757.

To all whom it may concern:

a specification.

in shock-absorbing fenders or buffers for bly to said yoke extensions by said bolts and le plified in the drawings annexed hereto, the bars, using separate bolts 14, clamping '20 tally in spaced relation at the rear side of site the horizontal space between the two 26 parts. Fig. 3 is a side elevation and verti- horizontal plane rearwardly of the impact 2. Fig. 5 is a perspective view of a yoke tened to the vehicle frame ends 18, either by

spaced apart a substantial distance from However, to meet the common practice of each other opposite the middle impact por- mounting a spare tire 22 upon the rear end tion of the impact bars and also retired of a motor vehicle intermediate the project-45 from the curved ends 6 of the bars. Each ing ends of the frame, the yekes may be yoke is made of a straight bar of metal hav- slightly modified to increase or widen the 100 ing its opposite end portions bent forwardly space between them rearwardly of the imand thence toward each other, one extremity pact bars so that a circular section of the 7 being straight and parallel with the main spare tire may have ample room to extend 50 body thereof and having a bolt opening 8 downwardly therebetween. Thus, the inner therein, and the other extremity being bent end portion of each yoke may be bent for 105 downwardly at its edge and thence upward- wardly at right angles to its main bedy on ly on straight lines to provide a flat vertical straight lines as shown at 23 in Figs. 7 and

10 therein at a higher and lower elevation 35 Be it known that I, WILLIAM G. Cox, a than opening 8 in the opposite extremity 7. citizen of the United States, residing at The two impact bars have bolt openings in. Cleveland, in the county of Cuyahoga and their flat faces back from their curved ends State of Chio, have inverted certain new adapted to receive bolts 11 which may pass and useful Improvements in a Shock-Ab- through the openings 10 in vertical exten- 60 sorbing Fender, of which the following is sions 9 of both yokes 4 and 5, respectively, thereby permitting the two impact bars 2 My invention relates to an improvement and 3, respectively, to be fastened detachamotor vehicles, the device being particularly separate nuts 12. A rigid immovable at es constructed to permit convenient attach- tachment of the yokes and bars is then obment thereof to either end of the vehicle and tained by clamping the other extremities 7 to frames of varying width; and as exem- of the two yokes to the rear sides of both device comprises a plurality of spring im- plates or disks 15, and nuts 16. This mode 70 pact bars detachably affixed in a simple way of attaching the yokes is made possible beto a pair of spring supporting bars in the cause the short straight horizontal extremiform of elongated yokes arranged horizon- ty 7 of each yoke is aligned directly opposaid bars. Thus, Fig. 1 is a perspective parallel bars when the said bars are bolted at 76 view of the front end of a motor vehicle different elevations upon the vertical extenequipped with a fender or buffer of my in- sions 9 of said yokes. In fact, the main vention, and Fig. 2 is a top view of the same body portions of both yokes lie in the same cal section on line 3-3 of Fig. 2, and Fig. bars opposite the longitudinal space be se 4 is a vertical section on line 4-4 of Fig. tween the bars to permit them to be fasmember. Fig. 6 is a perspective view of the shackle bolt fittings 19 and U-bolts 20 as. rear end of a motor vehicle equipped with shown in Fig. 2, or by clamping brackets the device, and Fig. 7 is a top view of the 21 such as delineated in Fig. 7. These fit. 35 same parts corresponding to Fig. 2, but tings or brackets may be of any suitable showing a slightly modified form of yoke' kind or style but by using such devices or member. Fig. 8 is a perspective view of the, equivalent means I am enabled to engage 35 modified form of yoke shown in Fig. 7. the yokes at any point, on the extended As shown, the buffing fender consists of straight body portions 13 thereof and fasten 90 a pair of flat spring bars 2 and 3, respect the fender or buffer as a whole to vehicle tively, rigidly connected in spaced horizon- frames of different width, or to the rear or tal parallelism and vertical alignment by a front end of the same car inasmuch as the pair of elongated yokes 4 and 5, respectively. chassis frames of motor vehicles in general These yokes are alike in construction and are wider at the rear than at their front. 95'

extension 9 having a pair of bolt openings 8, and thence either toward the opposite ex-

tremity 7'.

What I claim, is:--

5 1. A shock-absorbing fender for a motor each bar, and means connecting the opposite impact bars, spaced yokes having forwardlyprojected extremities extending horizontally vehicle, comprising parallel impact bars, yoke to both said bars.

2. A shock-absorbing fender for a motor vehicle, comprising a plurality of impact 8. A shock absorbing fender for a motor

20 impact bars spaced apart vertically, a pair extremities. 25 means adapted to clamp said yokes adjust- tending through each bar and connecting ably thereto.

elongated yokes at the rear sides of said bars site extremities of each yoke. having bent extremities extending for- 10. A shock-absorbing fender for a motor

-both said bars.

35 pact bars, yokes horizontally arranged at to each other, and separate clamping dethe rear of said bars having bent extremi- vices detachably connecting the extremities ties adapted to engage both bars, and clamp- of said yokes to said bars. ing devices detachably securing the oppo- . In testimony whereof I affix my signature site extremities of each yoke independently hereto. to said bars.

6. A shock-absorbing fender for a motor

tremity of the yoke, or in the opposite di- vehicle, comprising parallel impact bars, a rection to provide a straight clamping ex- pair of yokes having bent extremities engaged with said bars, means connecting one extremity of each yoke independently to 45 vehicle, comprising a plurality of parallel extremity of each yoke to said bars jointly.

7. A shock-absorbing fender for a motor in engagement with the said bars, and means and a pair of yokes adapted to support said 50 10 connecting the opposite extremities of each bars, each yoke having a vertical extremity and a horizontal extremity connected to said

bars.

bars, and elongated supporting yokes hav- vehicle, comprising parallel impact bars ver- 55 15 ing bent extremities extending forwardly tically spaced apart, a pair of separate yokes and affixed separately in spaced relation to having bent extremities engaged with the the rear faces of both said bars.

rear sides of said bars, and clamping means 3. A shock-absorbing fender for a motor for said bars extending through the space vehicle, comprising a plurality of separate between said bars and connecting with said 60

of elongated supporting yokes affixed sepa- 9. A shock-absorbing fender for a motor rately in spaced relation to the rear sides of vehicle, comprising parallel impact bars, said bars, and supporting brackets adapted supporting yokes having bent extremities to be affixed to the motor vehicle having engaging said bars, fastening devices ex-65 with one extremity of each yoke, and supple-4. A shock-absorbing fender for a motor mental clamping devices extending between vehicle, comprising parallel impact bars, and parallel bars and connecting with the oppo-

wardly and independently connected with vehicle, comprising a pair of parallel impact bars, a pair of supporting yokes for 5. A shock-absorbing fender for a motor said bars, each yoke having its opposite vehicle, comprising a pair of parallel im- extremities bent at right angles in respect 75

VILLIAM G. COX.