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Nov. 18, 1924.

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BACKSEAT FOR MOTOR CYCLES Filed Oct. 26, 1922 . .

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Inventor: Inventor: IFI. H. Driessen, by Langner, Parry, Lard & Langner Htt ys.

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Inventor

Driessen

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UNITED STATES PATENT OFFICE.

NETHERLANDS. HERMANUS ANTONIUS DRIESSEN, OF THE HAGUE,

BACK SEAT FOR MOTOR CYCLES.

Application filed October 26, 1922. Serial No. 597,187.

To all whom it may concern:

DRIESSEN, a citizen of the Kingdom of the Netherlands, and resident of The Hague, 5 Netherlands, have invented a certain new and useful Back Seat for Motor Cycles, of which the following is a specification.

additional backseat for motorcycles. Al- dent, the said obtuse angle would cause the 10 ready many different kinds of backseats springs to be located very low, so that they have been proposed with a view to obtain- would be in the way for the passenger, if requirements. One of the best, which more-overcoming this slight objection, and at the over shows some resemblance to the object same time for obtaining a very practical

lished Dutch patent-application No. 17703 formed according to the present invention, which the rear end of the seat proper is at an angle of about 90° to each other. The provided with one or more links, the under arms, on which the springs act, are directed 20 ends of which are connected to the fixed forwards and upwards, so that the fulframe by means of draw-springs, while the crums of the springs can be situated near

the seat form an angle of nearly 180° with Be it known that I, HERMANUS ANTONIUS the direction in which the springs act. Thus 55 it is obtained, that the springs first act with but slight force on the seat, while the force on further downward movement, increases strongly with the decrement of the said angle.

The invention relates to an improved With the construction which is most eviing a product which meets all reasonable no particular guard be applied thereto. For 65 15 of this application, is specified in the pub- and simple construction, the levers may be Ned. cl. 63 g. Such seat is of the type, in as bell-crank-levers, the arms of which are 70

forepart of the seat proper is rotatable the horizontal pivot axle of the seat proper. ⁷⁵ around a horizontal shaft of the frame. As one example, in the accompanying The lower end of each of the links is pivot-drawings, an embodiment is shown for 25 ally connected with one arm of a double- carrying the invention into effect, wherein, armed lever the other arm of which is Fig. 1 is an elevation of the improved flexibly connected with the frame.

This particular construction has indeed many advantages, since, by the connection Fig. 3 is a rear view of a clip for main-30 of the fore-part the seat is prevented from taining the seat-bottom, when desired, in moving laterally, a sufficient space is ob- a nearly horizontal position, in cooperation tained for permitting the seat proper to with a belt with a hook, spring as necessary, and still it can be Figs. 4 and 5 are longitudinal sections of mounted but a short distance above the the said clip with the belt in two different 35 mudguard, so that the stability is not greatly positions, and decreased. However the springing itself Fig. 6 is an elevation showing the ardoes not meet all reasonable requirements, rangement of the connecting device. because the tension is decreased by the holding of the springs which act directly on the 40 link. Moreover, there is not enough attention paid to the requirement, that the upward force of the springs must be very 3, to the middle of a fixed horizontal shaft 95 slight at the beginning of the downward 4, which is supported by two rods 5', in movement of the seat, and must increase order to prevent lateral movements. These 45 rapidly on further downward movement. rods 5' are supported on rods 5 which bear It is the purpose of the present invention in any desired manner, upon a stationary to improve the said spring arrangement, part such as the rear axle of the cycle, by 100 and therefore it is characterized by the fact, that the spring effect is obtained solely by is applied between rods 5 and any part of 50 means of draw-springs, which act on links the machine frame proper, by means of a by the intermediary of levers, while the flexible strap 7, to be wrapped about any arms, on which the springs act, will, in the convenient part of the frame, to hold rods 105 first part of the downward movement of 5 in set position. The rear end of the seat-

seat,

Fig. 2 is a perspective elevational view,

90 Fig. 7 is a fragmentary view showing the adjustable spring connecting means.

The seat-bottom 1, supporting a cushion 2, is pivotally connected by a ball-bearing means of apertures 6. A second connection

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1,516,176

bottom is provided with two links 8, the under ends of which are pivotally connected to the arms of two bell-crank-levers 9, which are fulcrumed on a horizontal spindle 10, 5 supported by a frame 11, 12, which is connected to the rods 5. The other arms of the bell-crank-levers are pivotally connected to spring bearers 13. Between these bearers 13 and other bearers 15 (see Fig. 7) are po-10 sitioned coiled springs 14. The bearers 13 and 15 are formed of two parallel spaced plates, connected by cross bolts 13', and 15'. front portion, bell-crank-levers pivoted to The bearers 15 are rotatably mounted on the frame, links connected at one end to the short shafts 18, which are situated beneath, rear portion of the seat, and at the other end 15 and adjacent to, the shaft 4, the shafts 18 being adjustably mounted on frame members 12, by means of screw threaded eye bolts 19 and nuts 20, so that the tension of the springs 14, can be varied at will by ad-20 justing the position of bearers 15. In arranging the springs 14 in the above de- the bell cranks to which the springs are conscribed manner, at the inner sides of the rods 12, they offer no obstruction to the passenger, the seat sustains merely its own dead weight. and all damage to his legs or his clothes, is 25 avoided. seat-bottom 1 is indicated by dotted lines, so that it is clearly to be seen, that there is a considerable distance between this position near and beneath the said horizontal shaft. 30 and the normal position. Hence, a free 3. A backseat according to claim 1, in-95 springing action is secured, without any ne- cluding a belt for preventing the seat when cessity to mount the seat-bottom at a rela- not in use from being spring actuated to its tively great distance above the mud guard 16. uppermost position. It clearly appears from Fig. 1, that the 35 springs 14, at the first part of the downward movement of the seat-bottom, act with only a very small force, while this force increases rapidly on any further downward movement, on acount of the aforementioned an-40 gle decreasing toward 90°. A belt or the like 17, of any desired material and fastened in any appropriate manner, to its uppermost position. may be provided for maintaining the seat- 5. A backseat according to claim 1, inbottom in a nearly horizontal position when cluding a belt for preventing the seat when a back seat according to the present invention, the springs have only very slight ten- accommodate the said belt and a hook on sion, when the rear end of the seat-bottom the belt cooperating with the clip, whereby is in its highest position. Therefore, it is the seat may be free, or else maintained in 50 very necessary that there be a device, by a somewhat sagged position. which the seat-bottom can be maintained in 6. A backseat according to claim 1, the a somewhat lowered position. In order that bell-crank-lever being at an angle of about this may always be easily obtained, and 90°, the arms to which the springs are atwithout placing the vehicle on its support, tached being directed forwardly and up-

Otherwise, the hook 23 will rest against a bridge member 22, so that the seat-bottom can spring freely.

In Fig. 6 the arrangement of the locking device 21-24, is clearly shown. Having fully described my invention, what I claim is:

1. A back seat for motorcycles, comprising, a frame detachably connectable to a motorcycle, a horizontal shaft on the frame, 75 a seat rotatably connected to the shaft at its to arms of the bell-crank-levers, spring sup- 80 ports on the frame, tension coil springs connecting the spring supports and the free arms of the bell-crank-levers, whereby the springs tend to force the seat upwardly, the angles between the springs and the arms of 85 nected, being substantially of 180° when 2. A backseat according to claim 1, the bell-crank-lever being at an angle of about 90 In Fig. 1 the extreme low position of the 90°, the arms to which the springs are attached being directed forwardly and upwardly, the spring supports being situated 4. A backseat according to claim 1, the bell-crank-lever being at an angle of about 100 90°, the arms to which the springs are attached being directed forwardly and upwardly, the spring supports being situated near and beneath the said horizontal shaft, including a belt for preventing the seat 105 when not in use from being spring actuated 15 not used. By the particular construction of not in use from being spring actuated to its 110 uppermost position, a clip on the seat to 115

55 there may be provided a clip 21 as indicated wardly, the spring supports being situated 120 in Fig. 3 and a single belt 24 as indicated near and beneath the said horizontal shaft, in Figs. 4, 5 and 6. The belt 24 is connected including a belt for preventing the seat to the frame 11, and passes through the clip when not in use from being spring actuated 21. This belt has a hook 23, attached to its to its uppermost position, a clip on the seat underside. When the belt is drawn back- to accommodate the said belt and a hook on 125 wards, and at the same time pressing down the belt cooperating with the clip, whereby the seat proper, the hook 23 can be placed the seat may be free, or else maintained in over the rear end of the clip, as indicated a somewhat sagged position. in Fig. 4, whereby the seat-bottom is main- 7. A backseat according to claim 1, in-65 tained in a nearly horizontal position. cluding a belt for preventing the seat when 130

1,516,176

uppermost position, a clip on the seat to ac- uppermost position, a clip on the seat to accommodate the said belt and a hook on the commodate the said belt and a hook on the 5 seat may be free, or else maintained in a seat may be free, or else maintained in a somewhat sagged position, said clip includ- somewhat sagged position, said springs being means to hold the hook when the seat

bottom is free.

10 bell-crank-lever being at an angle of about 90°, the arms to which the springs are at-90°, the arms to which the springs are at- tached being directed forwardly and uptached being directed forwardly and up- wardly, the spring supports being situated wardly, the spring supports being situated near and beneath the said horizontal shaft, 15 including a belt for preventing the seat when not in use from being spring actuated when not in use from being spring actuated to its uppermost position, a clip on the seat to its uppermost position, a clip on the seat to accommodate the said belt and a hook on to accommodate the said belt and a hook on the belt cooperating with the clip, whereby 20 the seat may be free, or else maintained in a a somewhat sagged position, said springs besomewhat sagged position, said clip includ- ing adjustably supported on said frame. ing means to hold the hook when the seat bottom is free. 25 springs being adjustably supported on said uppermost position, a clip on the seat to acframe. bell-crank-lever being at an angle of about 90°, the arms to which the springs are at-30 tached being directed forwardly and up- ing means to hold the hook when the seat wardly, the spring supports being situated bottom is free, said springs being adjustably near and beneath the said horizontal shaft, supported on said frame.

not in use from being spring actuated to its not in use from being spring actuated to its belt cooperating with the clip, whereby the belt cooperating with the clip, whereby the 55 ing adjustably supported on said frame. 14. A backseat according to claim 1, the 8. A backseat according to claim 1, the bell-crank-lever being at an angle of about 60 near and beneath the said horizontal shaft, including a belt for preventing the seat 65 the belt cooperating with the clip, whereby the seat may be free, or else maintained in 70 15. A backseat according to claim 1, including a belt for preventing the seat when 9. A backseat according to claim 1, said not in use from being spring actuated to its 75 commodate the said belt and a hook on the 10. A backseat according to claim 1, the belt cooperating with the clip, whereby the seat may be free, or else maintained in a somewhat sagged position, said clip includ- 80 said springs being adjustably supported on 16. A backseat according to claim 1, the bell-crank-lever being at an angle of about 85 35 11. A backseat according to claim 1, in- 90°, the arms to which the springs are atincluding a belt for preventing the seat 90 12. A backseat according to claim 1, the when not in use from being spring actuated 90°, the arms to which the springs are at- to accommodate the said belt and a hook wardly, the spring supports being situated by the seat may be free, or else maintained 95 In testimony whereof, I have signed my 100 name to this specification. HERMANUS ANTONIUS DRIESSEN.

- said frame.
- cluding a belt for preventing the seat when tached being directed forwardly and upnot in use from being spring actuated to its wardly, the spring supports being situated uppermost position, said springs being ad- near and beneath the said horizontal shaft, justably supported on said frame.
- 40 bell-crank-lever being at an angle of about to its uppermost position, a clip on the seat tached being directed forwardly and up- on the belt cooperating with the clip, where-45 near and beneath the said horizontal shaft, in a somewhat sagged position, said clip inincluding a belt for preventing the seat cluding means to hold the hook when the when not in use from being spring actuated seat bottom is free, said springs being adto its uppermost position, said springs being justably supported on said frame. adjustably supported on said frame.
- 13. A backseat according to claim 1, in-50 cluding a belt for preventing the seat when

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