

H. CONBOY.
 DROP BACK REST FOR SEATS.
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1,003,034.

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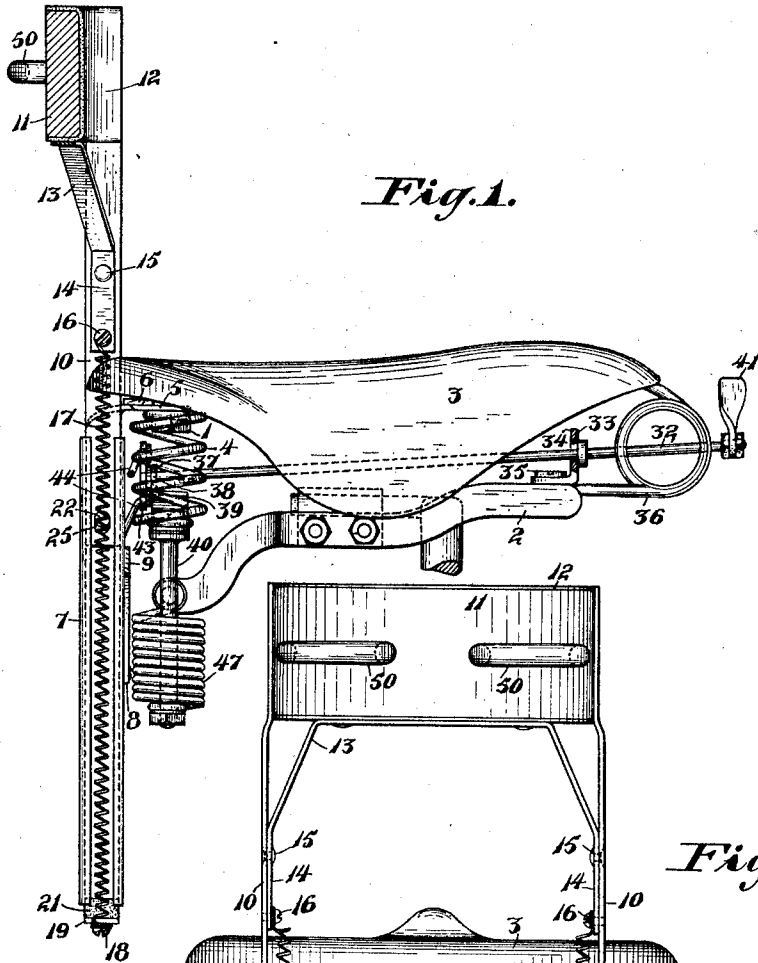


Fig. 1.

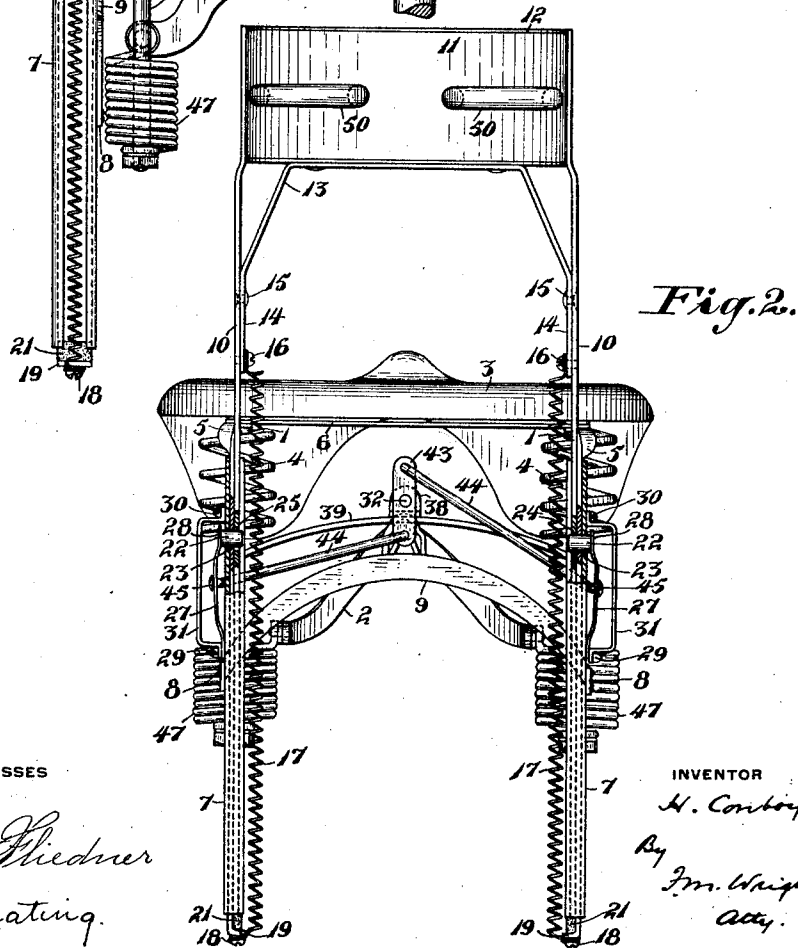


Fig. 2.

WITNESSES

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DROP BACK-REST FOR SEATS.

1,003,034.

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To all whom it may concern:

Be it known that I, HENRY CONBOY, a citizen of the United States, residing at Alameda, in the county of Alameda and State of California, have invented new and useful Improvements in Drop Back-Rests for Seats, of which the following is a specification.

The object of the present invention is to provide a drop back rest for seats of all kinds, but adapted more especially for the seats of bicycles, and particularly for tandem bicycles or motorcycles.

In the accompanying drawing, Figure 1 is a central vertical section of my improved back rest; Fig. 2 is a rear view thereof.

Referring to the drawing, to the screws 1 which are used to connect with the frame 2 of the saddle 3 the rear springs 4 for supporting said saddle, I attach strap-iron bars 5 which extend horizontally rearward and diverge slightly, and are connected by a flat bar 6 riveted thereto. The rear ends of said bars 5 are riveted to vertical guideways or channel pieces 7, connected, as shown at 8, by a suitable curved brace 9, in which guideways can slide vertically slide pieces 10, the upper portions of which are attached to a back rest 11 the front side of which is suitably upholstered, as shown at 12. The lower edge of said back rest is secured to a brace 13, which, as shown at 14, is bent downwardly at its terminal portions and is attached to said slide pieces 10, first by rivets 15, and then, at the extreme lower ends, by screws 16. To said screws 16 are attached the upper ends of coiled springs 17, the lower ends of which are attached to screws 18 screwed upwardly into the inwardly bent lower ends 19 of said channel pieces 7. On said inwardly bent ends are secured, by means of said screws 18, blocks 21 of rubber, fiber, or other non-metallic material, which receive the impact of the lower ends of said slide pieces 10 when the back rest drops to its lower position. The back rest in its lower position is slightly below the level of the saddle, so as not to interfere with the rider in mounting. When the rider has mounted he raises the back rest by an upward pull against the force of said springs with his hand applied to the lower edge of the rest. When said back rest has been raised to the proper level, it is retained in this position by means of horizontal pins 22 slidable through holes 23 in the channel

pieces 7, and adapted to enter holes 24, 25, in the slide pieces, one 25 of said holes 24 being preferably elongated, in order that the proper action of said pins may not be prevented by a slight irregularity in construction of the mechanism. When the back rest is raised to a proper level, said pins are automatically pressed into said holes 24, 25, by means of flat springs 27, the upper ends of which are attached, as shown at 28, to the pins, while the lower ends are secured by screws 29 to the channel pieces. Said screws 29, and likewise upper screws 30, also secure to said channel pieces shields 31, which prevent said springs catching the dress of a lady rider.

When it is desired to drop the back rest, as for dismounting, this is effected by means of a shaft 32 having a front bearing in a vertically elongated hole 33 in a bracket 34 secured to the frame 2 of the saddle in any suitable manner, as by the screw 35 which is now employed to secure to said frame 2 the lower portion of the front saddle springs 36. Said spring has its rear bearing in a hole 37 in a bracket 38, suitably secured to the bridge 39 which is now employed to connect the stems 40 of the rear saddle springs. Said shaft 32 can be turned in its bearings by means of a handle 41 secured to the front end of the shaft. The rear end of said shaft, behind the bracket 38, is attached to the middle of a bar 43, the ends of which are pivotally connected to rods 44, which extend close to the channel pieces 7, and the outer ends of which are bent, and attached, as shown at 45, to the mediate portions of said flat springs 27. By turning said shaft in the proper direction, the pins 22 are withdrawn from the holes 24, 25, in the slide-pieces, whereupon the back rest drops under the action of the springs 17, which springs are for the purpose of positively insuring descent of said back rest, notwithstanding the friction of the guidepieces in the channel pieces.

To the back of the rest are secured handles 50 which may be used either by the rear rider, if the back rest is attached to the front saddle, or for suspending articles from said back rest.

It will be seen that the parts are so arranged that pressure backward by the rider against the rest when in its elevated position will be resisted or supported by the lower helical saddle springs 47 at present in

use which will then be in contact with the guideways 7. In this way additional support is provided for the back rest.

I claim:—

5 1. In combination with a saddle, a vertical guideway secured to the rear of said saddle, a guidepiece guided vertically therein, a back rest secured to the top of said guide-
10 rest in its upper position, substantially as described.

2. In combination with a saddle, a vertical guideway secured to the rear of said saddle, a guidepiece guided vertically therein, a
15 spring for drawing down said guidepiece, a back rest secured to the top of said guide-
piece, and a latch for securing said back rest in its upper position, substantially as described.

20 3. In combination with a saddle, a vertical guideway secured to the rear of said saddle, a guidepiece guided vertically therein, a back rest secured to the top of said guide-
piece, a latch for securing said back rest in
25 its upper position, and means operable from the front end of the saddle for withdrawing said latch, substantially as described.

4. In combination with a saddle, a vertical guideway secured to the rear of said saddle,
30 a guidepiece guided vertically therein, a back rest secured to the top of said guide-
piece, a spring-actuated latch for securing said back rest in its upper position, and a shield for covering said latch, substantially
35 as described.

5. In combination with a saddle, a vertical guideway secured to the rear of said saddle, a guidepiece guided vertically therein, a back rest secured to the top of said guide-
40 piece, a block of non-metallic material adapted to arrest the downward movement of said guidepiece, and a latch for securing said back rest in its upper position, substan-
tially as described.

45 6. In combination with a saddle, vertical guideways secured to the rear of said saddle,

guidepieces guided vertically therein, a back rest secured to the top of said guide-
pieces, and a latch for securing said back rest in its upper position, substantially as 50 described.

7. In combination with a saddle, vertical guideways secured to the rear of said saddle, guidepieces guided vertically therein, a
55 spring for drawing down said guidepieces, a back rest secured to the top of said guide-
pieces, and a latch for securing said back rest in its upper position, substantially as described.

8. In combination with a saddle, vertical 60 guideways secured to the rear of said saddle, guidepieces guided vertically therein, a back rest secured to the top of said guidepieces, a latch for securing said back rest in its upper position, and means operable from the 65 front end of the saddle for withdrawing said latch, substantially as described.

9. In combination with a saddle, vertical guideways secured to the rear of said saddle, guidepieces guided vertically therein, a back
70 rest secured to the top of said guidepieces, a spring-actuated latch for securing said back rest in its upper position, and a shield for covering said latch, substantially as de-
scribed. 75

10. In combination with a saddle, vertical guideways secured to the rear of said saddle, guidepieces guided vertically therein, a back rest secured to the top of said guidepieces, block of non-metallic materials adapted to
80 arrest the downward movement of said slide-
pieces, and a latch for securing said back rest in its upper position, substantially as described.

In testimony whereof I have hereunto set 85 my hand in the presence of two subscribing witnesses.

HENRY CONBOY.

Witnesses:

FRANCIS M. WRIGHT,
D. B. RICHARDS.