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### PROVISIONAL SPECIFICATION.

#### Improvements in Velocipedes.

I, CHARLES CHALLAND, of Geneva, in the Republic of Switzerland, Professor, do hereby declare the nature of this invention to be as follows:—

The invention consists of an improved velocipede the saddle of which is provided with a back intended to support the cyclist's hips with the object of allowing the said cyclist to act upon a pair of treadles the axis of which is placed at or about the same height as the seat of the saddle.

The invention further consists in forming the said saddle-back of a flexible bag suspended to a suitably formed curved rigid back.

The advantage of a velocipede of my improved construction is that it allows the cyclist to sit on his machine and act upon the treadles in such a position of his body as to ensure a comfortable position of the abdomen and an unimpeded breathing.

The frame of the machine may be made of wood but the same may of course be made of steel or other suitable materials whatever.

To the frame of the machine is affixed the bracket of the treadle-axis which carries the treadles and the chain wheel.

The frame is provided with a projection to which is affixed a curved rigid back-piece intended to support the flexible bag which may be made of leather or canvas or of any other suitable flexible material.

The lower end of said bag is affixed to a cross piece fixed to the frame. The treadle-axis is placed at approximately the same height as the cross-piece supporting the lower portion of the bag and it will easily be understood that the cyclist sitting on the machine has his hips comfortably supported in a substantially horizontal direction when acting upon the treadles with his legs.

Dated this 27th day of March 1896.

HASELTINE, LAKE & Co.,  
45 Southampton Buildings, London, W.C., Agents for the Applicant.

### COMPLETE SPECIFICATION.

#### Improvements in Velocipedes.

I, CHARLES CHALLAND, of Geneva, in the Republic of Switzerland, Professor, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

The invention relates to an improved velocipede the saddle of which is provided with a back intended to support the cyclist's hips with the object of allowing the cyclist to act upon a pair of treadles the axis of which is placed at or about  $\frac{2}{3}$  of the height of the seat or saddle, so that the cyclist's legs are inclined at an angle of about 45° to the horizon.

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*Challand's Improvements in Velocipedes.*

The invention further consists in forming the said saddle-back of a flexible bag or hammock suspended to a suitably formed curved rigid back, and in providing means for adjusting the position of said suspended bag or hammock either with regard to the height of the curved rigid back or with regard to its distance to the treadle-axis. The invention further comprises a suitable construction of frame suiting the requirements of this special sort of velocipede that is having the saddle supported next to the circumference of the driving-wheel and the treadle-axis placed substantially in line with the saddle and the axis of the steering-wheel.

The advantage of a velocipede of my improved construction is that it allows the cyclist to sit on his machine and act upon the treadles in such a position that his body ensures a comfortable position for the abdomen and unimpeded breathing, and to allow both his legs to rest on the ground whilst sitting on the saddle, when the machine is stationary.

The frame of the machine may be made of wood or steel or other suitable material.

To the frame of the machine is affixed the bracket of the treadle-axis which carries the treadles and the chain-wheel.

The frame is provided with an adjustable projection to which is affixed a curved rigid-back-piece intended to support the flexible bag which may be made of leather or canvas or of any other suitable flexible material.

The lower end of said bag is affixed to an adjustable cross piece fixed to the frame and bearing a suitable seat proper formed of a cushion of any kind. The treadle axis is placed at approximately  $\frac{2}{3}$  of the height of the cross-piece supporting the lower portion of the bag and the cyclist sitting on the machine has his hips comfortably supported in a substantially horizontal direction when acting upon the treadles with his legs.

In the accompanying drawing I have shown one method of carrying out my invention but I desire to have it well understood that I do not limit myself to the precise details of the construction shown.

Referring to the drawings the frame of the machine is formed of tubes A B C and D all connected to a bracket E in which works the axis of the treadles F. A tubular connection G connects the ends of the tubes C and D and the tubes B only one of which is shown in the drawing, are connected to the tube A by means of a fork H. The axis of the driving wheel I is pivoted to the brackets which connect, the ends of the said fork H to, those of the tubes B.

The tube A bears an adjustable clip *a* and an adjustable bracket *a*<sup>1</sup> to the latter of which is attached a rod J provided with a curved back *j*, the height of which may be adjusted by sliding the rod J in the bracket *a*<sup>1</sup> and fixing the same in the suitable height by means of the set screw *j*<sup>2</sup>.

The steering-wheel axis is supported in a fork K the stem of which passes through the tube G and bears at its upper end a suitable steering-cross-bar K<sup>1</sup>.

To the curved back *j* there is suspended a bag or hammock L of canvas, linen, leather or other suitable material shown by dotted lines in the drawing. The lower end of said bag or hammock L is fixed to the adjustable clip *a* which is provided with a suitable cushion forming the seat proper and which may be displaced on the tube A and fixed in any desired position on the same by means of suitable set screws.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is:—

1. In bicycles the combination of a saddle having a back intended to support the cyclists' hips with a treadle-axis placed so as to allow the cyclist to act upon the treadles with his legs whilst using the back of the saddle as a point of support.

2. In bicycles having a saddle provided with a back intended to support the

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*Challand's Improvements in Velocipedes.*

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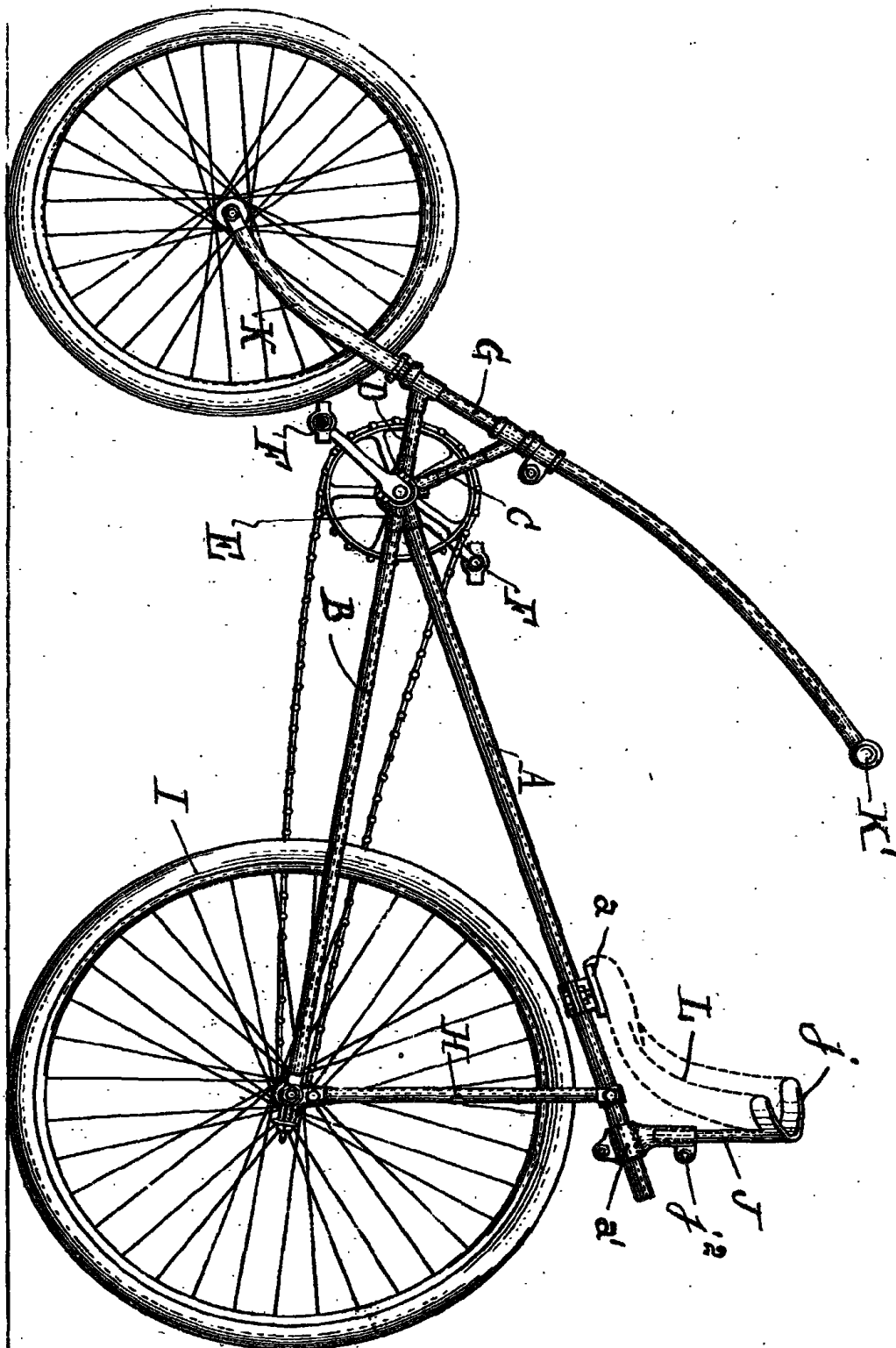
cyclists hips, a saddle formed of a bag or hammock of any suitable material, suspended to the said back and to a seat proper fixed to a suitable portion of the frame.

3. In bicycles a saddle formed of an adjustable back intended to support the  
5. cyclists hips, a clip or cross-bar bearing the seat proper and fixed to an adjustable bracket fixed to the frame and of a bag or hammock suspended to the said back and to the said seat proper fixed to the said clip or cross-bar, substantially as shown and described.

Dated this 15th day of December 1896.

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*[This Drawing is a full-size reproduction of the Original.]*

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