July 31, 1928. 1,678,972

F. BRONBERGER

AIR CUSHION

Filed May 28, 1927

Fig. 1

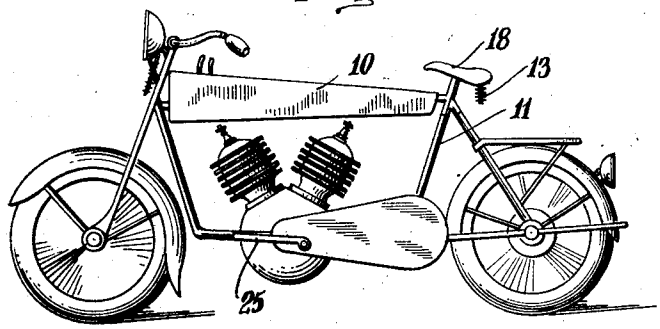


Fig. 2

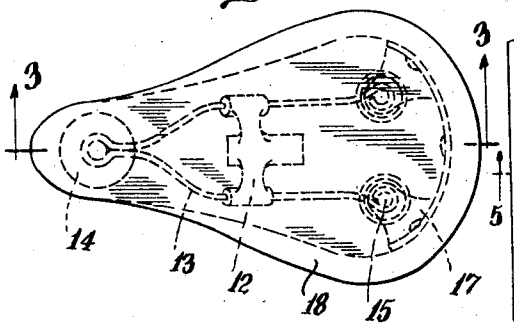


Fig. 4

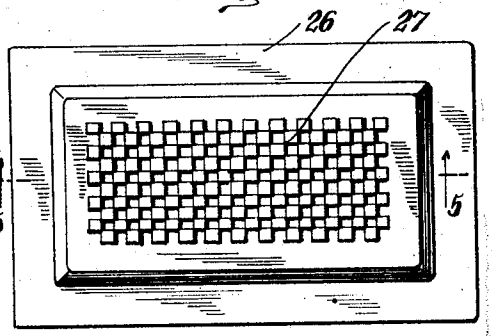


Fig. 3

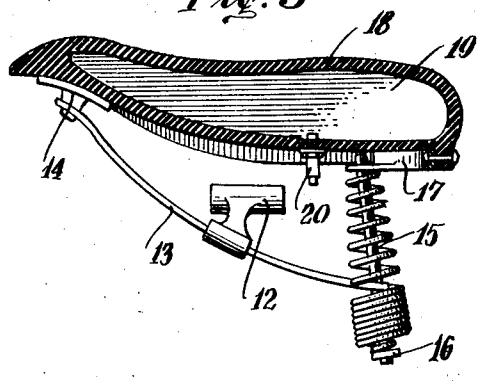
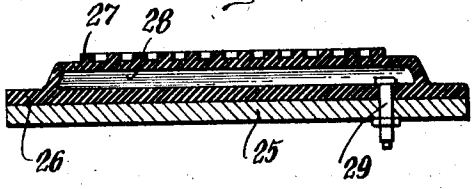


Fig. 5



Inventor

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By his Attorney

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UNITED STATES PATENT OFFICE.

FRANK BRONBERGER, OF NORTHPORT, NEW YORK.

AIR CUSHION.

Application filed May 28, 1927. Serial No. 194,890.

This invention relates to air cushions with particular reference to such as are used with seats and foot pads.

When riding for long distances on motorcycles and the like, it has been noted that because of the rigidness of the structure, considerable discomfiture is caused to the rider and that the elements creating the most annoyance are the seat and foot rest.

It is therefore the object of this invention to provide means incorporated in the mentioned elements, whereby a resilient or cushion effect is imparted thereto, rendering the same comfortable to the user.

A further aim is in the provision of means enabling automatic regulation of the resiliency, depending upon the weight or pressure placed upon the treated parts.

These and other objects, the foremost of which is the ready and easy adaptability to existing vehicles, are accomplished by the novel construction, combination and arrangement of parts, hereinafter described and illustrated in the accompanying drawing, forming an important component of this disclosure, and in which:—

Figure 1 is a side elevational view of a conventional motorcycle equipped with embodiments of this invention.

Figure 2 is a top plan view of a seat having the features of this invention incorporated therein.

Figure 3 is a partial side elevational, partial longitudinal sectional view taken on line 3—3 of Figure 2.

Figure 4 is a top plan view of a foot pad.

Figure 5 is a longitudinal sectional view taken on line 5—5 of Figure 4.

In the drawing, the numeral 10 generally designates a conventional motorcycle having a tubular support 11 extending upwardly at an angle near the rear of the vehicle to which is fixed a bracket 12 carrying a wire frame 13.

The frame 13 is substantially V-shaped and is fixed, at its apex, to a keeper 14, the outer ends of the same being coiled about rods 15 and abut, at their lower ends against washers 16 fixed on the rods and against a frame 17 fixed on the upper ends of the rods.

Secured on the frame 17 is a fibre seat 18 of the usual shape, having an air chamber 19 and provided with a valve 20.

Thus, an operator's weight will be resiliently supported on the seat due to the functioning of the valve.

Such vehicles are also provided with foot rests and, as shown in Figures 1, 4 and 5, the numeral 25 generally designates a rectangular metal support fixed to the side of the motorcycle.

Secured on the member 25 is a similarly shaped, fibre or rubber pad 26 having a raised central cushion 27 provided with an air chamber 28 and a valve 29, so that the operator's foot will be resiliently supported, relieving that member from cramps, sore heels and soles and other like discomforts.

While certain embodiments of the invention have been shown and described, it is to be understood that the principle involved may well be applied to numerous other articles with similar effect, without the exercise of inventive faculties or departing from the spirit and scope of the appended claim.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent, is:—

An air cushion for vehicle foot supports comprising a rigid plate, a rubber pad fixed on said plate, a cushion on said pad, said cushion having a single air chamber and a corrugated upper surface, and a valve fixed in said chamber to control the flow of air thereto, said valve passing through said pad and said plate.

In witness whereof I have affixed my signature.

FRANK BRONBERGER.