

PATENT SPECIFICATION



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174,920

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Complete Accepted: Jan. 4, 1923.

COMPLETE SPECIFICATION.

Improvements in or relating to Means for Mounting a Runner on the Wheels of Vehicles.

I, ADOLPHE KEGRESSE, 53, rue Balard, Paris, France, citizen of the French Republic, 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:—

This invention comprises a combined vehicle wheel and sledge runner, and is particularly suitable for motor vehicles.

According to the invention a sledge runner is rotatably mounted on the hub of the vehicle wheel to support the vehicle when the wheel sinks into soft ground, there being provided means which, while allowing the runner to adjust itself to uneven ground, damp out oscillations of the runner about the hub when the wheel is supporting the vehicle on hard ground.

The accompanying drawings show by way of example a construction of a device according to the present invention as applied to the steering wheels of a vehicle.

Figure 1 is a side elevation partly in section on the line M N in Figure 2.

Figure 2 is a plan partly in section on the line D E G in Figure 1.

Figure 3 is an end elevation in section on the line A O B C in Figure 1.

On a hub 1 of a vehicle wheel 14 is rotatably mounted, preferably by means of ball bearings, a collar 2 have segmental flanges 10 and lugs 11. To the lugs 11, by means of struts 3, is rigidly secured a sledge runner 4 having a suitably shaped hole 12 providing space for the vehicle wheel 14 which protrudes a suitable distance below the runner 4. Rotatably mounted on an extension 6 of the stub axle swivel pin is a member 5, an annular portion 15 of which extends in an easy fit between the segmental flanges 10. The portion 15 has a hole or recess in which is located a spring 7 each end

of which presses balls 8 into tapering recesses 9 in the segmental flanges 10.

The operation of the device is as follows:—

When the vehicle is supported by its wheels 14 on hard ground the runners 4 are suspended clear of the ground. It will be understood that in the absence of preventive means the runners 4 will, due to causes such as inertia, air resistance, etc., oscillate about the hub 1. Such oscillations are damped out by the braking action of the tapering notches 9, the balls 8, and the springs 7 located in the annular portion 15 of the member 5, which parts do not however prevent the runners 4 adjusting themselves to uneven ground.

In the case of the vehicle traversing soft ground or ground covered by soft yielding substances such as snow, the wheels 14 sink into the ground and the vehicle is supported on the runners 4.

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. The combination with a vehicle roadwheel of a sledge runner rotatably mounted on the wheel hub.

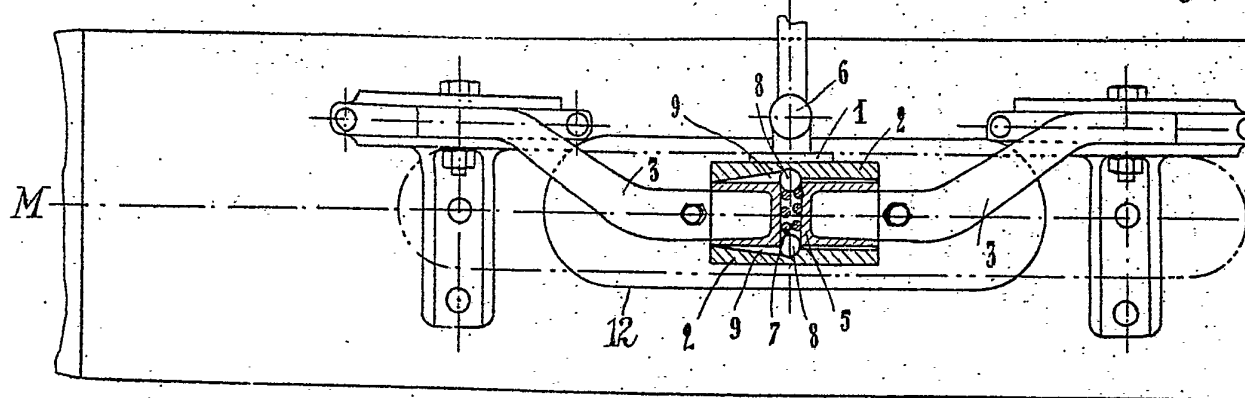
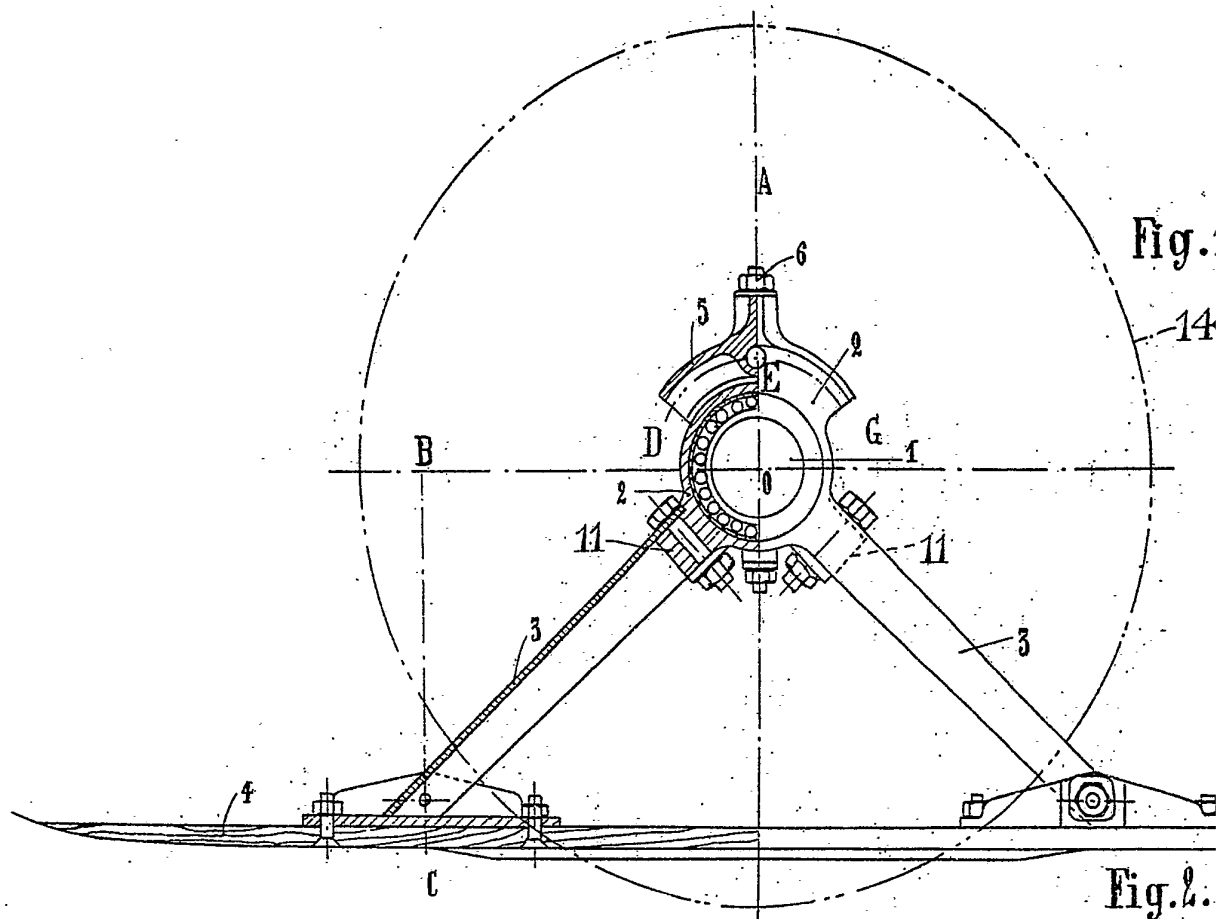
2. In apparatus as claimed in Claim 1, braking means adapted to damp out undesired oscillations of the runner.

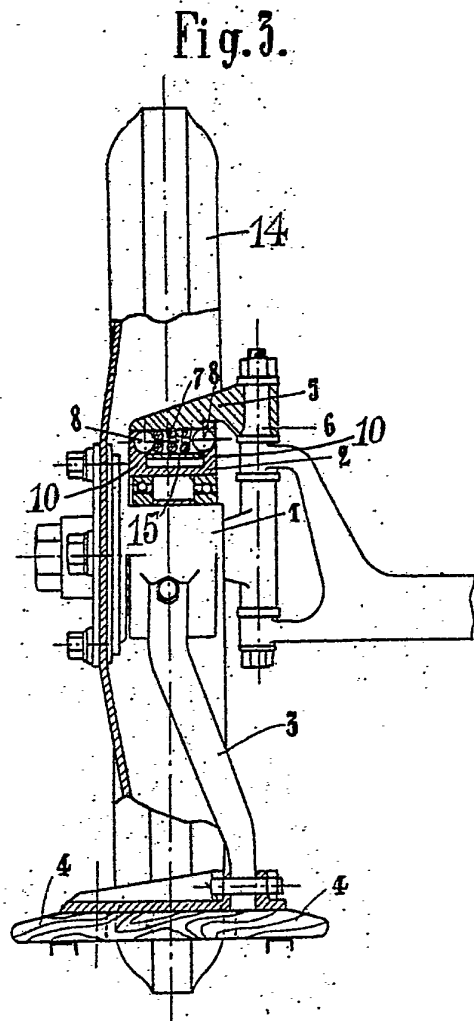
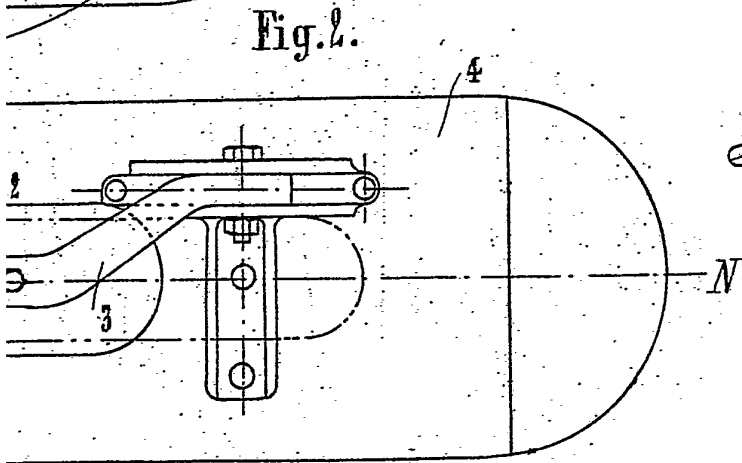
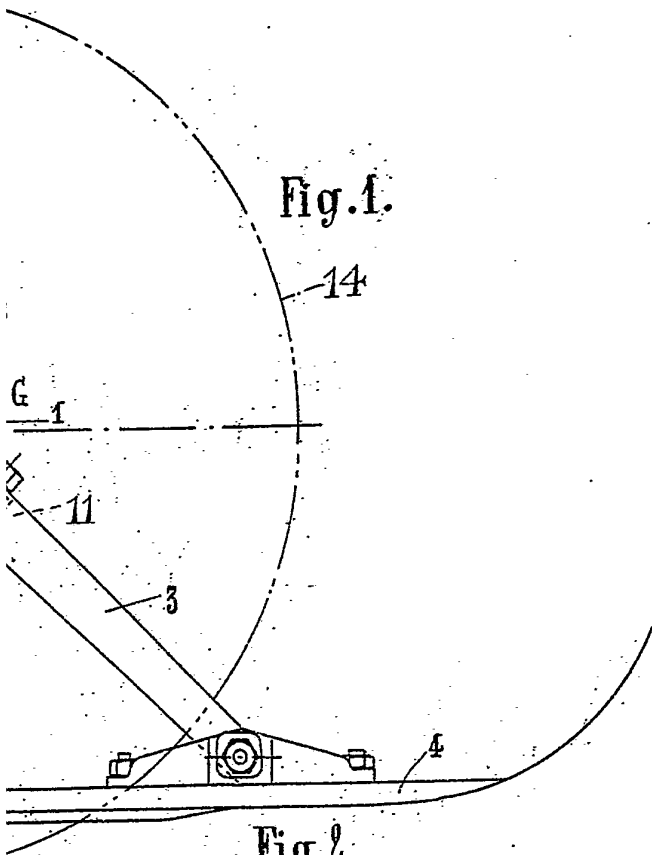
3. The vehicle roadwheel and sledge runner substantially as described or substantially as illustrated in the accompanying drawings.

Dated this 20th day of January, 1922.

BOULT, WADE & TENNANT,
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Chartered Patent Agents.

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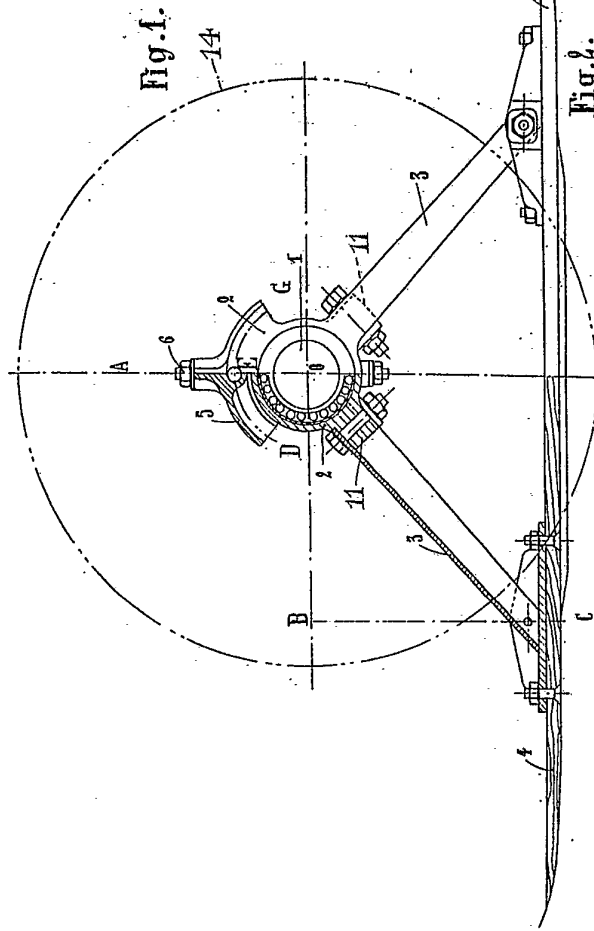


Fig. 1.

Fig. 2.

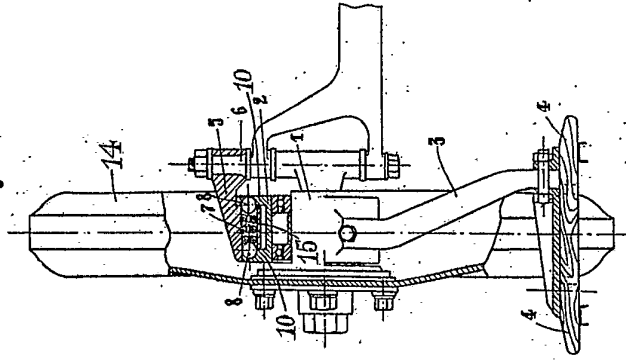
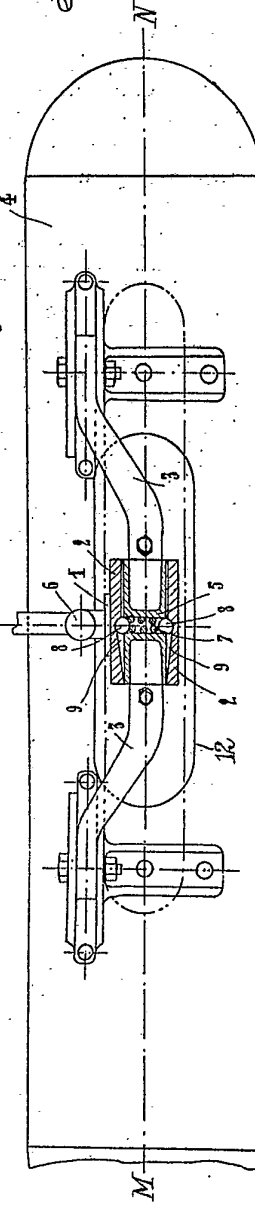


Fig. 3.