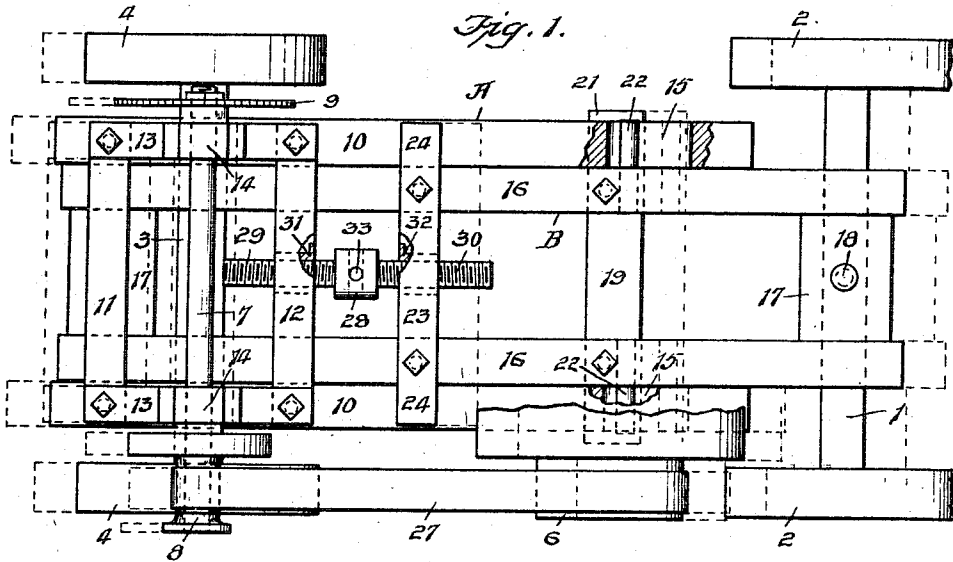
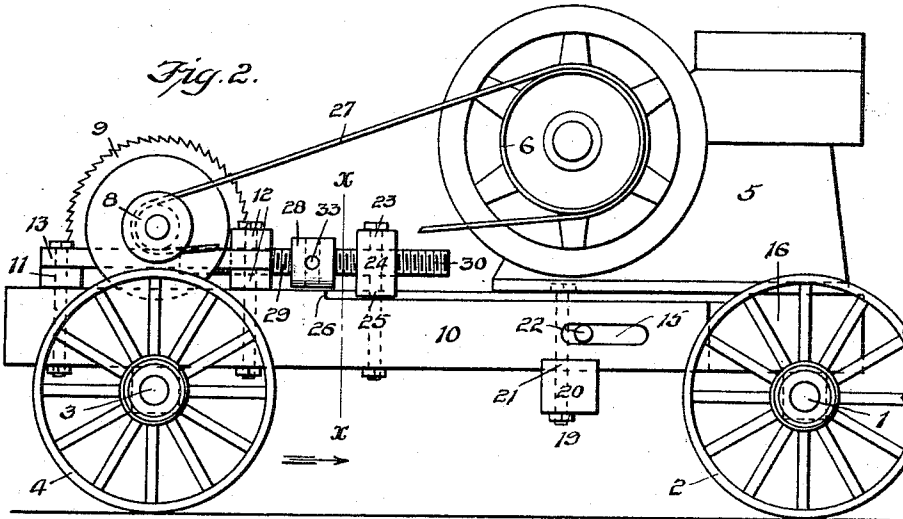
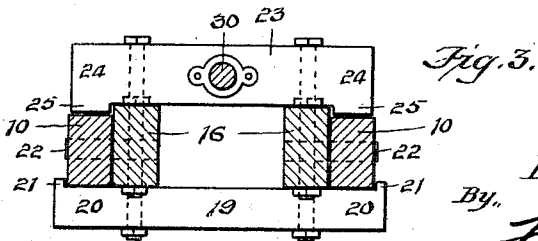


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ADJUSTABLE RUNNING GEAR FRAME.
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1,284,262.

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ADJUSTABLE RUNNING-GEAR FRAME.

1,284,262.

Specification of Letters Patent.

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Application filed May 7, 1917. Serial No. 166,778.

To all whom it may concern:

Be it known that I, EDWARD DRUESSEL, a citizen of the United States, residing at Troy, in the county of Madison and State of Illinois, have invented a certain new and useful Adjustable Running-Gear Frame, of which the following is a specification.

My invention relates to an adjustable running-gear frame for wheel supported apparatus, and has for its object to provide an adjustable wheel-supported frame capable of being easily and quickly shortened or lengthened more particularly to enable an endless or laced belt to be easily and quickly tightened or adjusted without stopping the belt.

A further object of the invention is to provide an adjustable frame which will be simple in construction, strong, capable of being quickly adjusted, and highly efficient in its operations, and one which is adapted to support an internal combustion engine or other source of motive power, and suitable apparatus or mechanism to be driven thereby. The motive power is adapted to be positioned upon one section of the frame, while the device or mechanism to be driven thereby is adapted to be positioned upon another section of the frame.

With the above and other objects in view, the invention consists in certain new and novel features of construction, arrangements and combination of parts, as will be more fully described hereinafter and finally pointed out in the claim hereto appended.

Referring to the accompanying drawings forming a part of this specification wherein like characters of reference denote similar parts throughout the several views:

Figure 1, is a plan view of my wheel supported, adjustable frame and apparatus, the frame being constructed in accordance with my invention, and the engine mounted upon one section of the frame being broken away with the exception of a portion of the fly-wheel and the belt pulley fixed thereto.

Fig. 2, is a side elevation thereof.

Fig. 3, is a detail in sectional elevation taken on line X—X of Fig. 2, looking in direction of the arrow.

Referring to the drawings, the reference

character 1 designates the movable front axle; 2, the wheels therefor; 3, the rear axle; 4, the wheel therefor; 5, a suitable internal combustion engine, or its equivalent; 6, the belt pulley thereof; 7, a driven power shaft; 8, a belt pulley fixed thereto; and, 9, a circular saw fixed to the shaft 7.

In carrying out the aim of my present invention, I employ a telescopic wheel-supported frame constructed as follows:

The frame consists of two sections, the outer section A, and the inner section B.

The outer section A consists of the two side sills 10. The two side sills 10 are supported at their rear ends by means of the rear axle 3, which axle is suitably fixed to the underface of each side sill 10. To further unite the two side sills 10, I use the two cross-pieces 11 and 12 which are suitably fixed at each end to the upper face of the side sills 10, as clearly shown in Figs. 1 and 2. The two cross-pieces 11 and 12 are united at each end by means of the cross-pieces 13 upon which are fixed the bearings 14 for supporting the power shaft 7. The front end of each side sill 10 is provided with a longitudinal slotted opening 15, the object of which will be clear hereinafter.

The inner section B of the frame consists of two side sills 16. These two side sills 16 are united at each end by means of the end cross-pieces 17. The two side sills 16 are supported at their forward ends by means of the front axle 1, which axle is pivoted, at 18, to the underface of the forward cross-pieces 17. The rear ends of the sills 16 are supported upon the rear axle 3 and are held from upward movement by means of the cross-pieces 11 and 12 which engage the upper faces of the side sills 16.

A cross-piece 19 is suitably fixed to the underface of each inner sill 16, as clearly shown in Figs. 2 and 3. This cross-piece 19 projects beyond the side face of each sill 16, as at 20, thereby forming a support for the front ends of each outer side sill 10. The cross-piece 19 is further provided at each end with the upwardly projecting ears 21 adapted to engage the outer side face of each outer sill 10.

A supporting pin 22 is fixed to each inner

sill 16 and is adapted to pass through the slotted openings 15 of the outer sills 10, as clearly shown in Figs. 1 and 2. These pins and slotted openings serve to hold the two sections A and B in alinement, and, further, prevent extreme longitudinal movement in either direction.

Suitably fixed to the upper face of each inner sill 16, of section B, is a cross-piece 23 which has its ends 24 projecting over the top-face of each of the side sills 10 of the outer section A, as clearly shown in Figs. 1 and 3. Each projecting end 24 of the cross-piece 23 is provided with a depending lip 25 which, in extreme rearward movement, will engage the shoulders 26 of the outer side sills 10, as clearly shown in Figs. 1 and 2.

The means for adjusting the two sections A and B such, for instance, as shortening or lengthening the distance between the belt pulleys 6 and 8 for loosening or tightening the belt 27, consists of a screw device 28 having the two screw-threaded shafts 29 and 30. The shafts 29 and 30 are provided with the left-hand screw threads and the right-hand screw threads, respectively. The screw-threaded shaft 29 is adapted to pass through the threaded collar 31, which collar is fixed to the cross-piece 12. The screw-threaded shaft 30 is adapted to pass through the screw-threaded collar 32, which collar is fixed to the cross-piece 23. The screw device 28 is provided with crossed openings 33, into which openings a suitable pulley may be placed for turning the screw-threaded shafts 29 and 30 in either direction, as is manifest.

It will be readily observed from Figs. 1 and 2 of the drawings that when the screw device 28 and the shafts 29 and 30 thereof are turned in one direction, that the two frame sections A and B will be slidably adjusted so as to lengthen the distance between the belt pulleys 6 and 8, and that when the device is turned in the opposite direction, the distance between the two pulleys will be shortened, as is manifest.

It will also be observed that the wheels 2 and 4 of the running-gear move away from each other, or toward each other, according to the direction in which the screw device 28 and the screw-threaded shafts thereof are turned, thereby either lengthening or shortening the wheel-supported, telescopic frame, as is manifest. It will be understood that when the screw-threaded device is turned in either direction that both frame sections A and B are moved in unison, and due to the fact that each frame is supported by means of the supporting wheels 2 and 4, the sliding adjustment of the frames A and B is easily and readily accomplished, owing to the fact that the wheels will move when the frame sections are slidably ad-

justed through the medium of the right and left-handed screw-threaded device to a selected position.

It will further be observed that the wheels 2 and 4 of the running-gear move away from each other, or toward each other, according to the direction in which the left and right-handed screw-threaded device is turned, thereby either lengthening or shortening the wheel-supported, telescopic frame, as is manifest.

From the foregoing description it will be observed that I have constructed an adjustable wheel-supported frame which is practical for the purposes intended, inexpensive in manufacture, easily adjusted, and a frame which can be used for various purposes other than acting as a mere belt-tightener, as more particularly described in this specification.

I am aware that various slight changes may be made in the particular construction and arrangements of the parts constituting my invention, hence reserve the right to make any such changes or modifications as may fairly fall within the spirit of my invention and the scope of the appended claim.

The many advantages of the herein-described adjustable frame and the many purposes to which it may be applied, will readily suggest themselves to those skilled in the art to which the invention appertains.

What I claim is:

In combination, a running gear frame comprising an outer frame section, consisting of a pair of sill members supported at their rear ends upon an axle and each being provided with a slotted opening near its forward end, upper cross-pieces for uniting the two sills, an inner frame section, consisting of two sill members united at their ends by means of cross pieces and supported at their forward ends by means of an axle and at their rear ends by means of the first mentioned axle, supporting wheels for said axles, said inner sill members being held from upward movement at their rear ends by means of the aforesaid upper cross pieces, a cross piece fixed to the under face of each inner sill member adapted to project beyond the outer side face of each outer sill member to form a support for the forward ends of the inner sill members to rest upon, means formed at the ends of said upper cross piece adapted to prevent spreading movement of the forward ends of the outer sill members, a laterally projecting pin fixed to each inner sill member adapted to pass through the slotted openings in the outer sill members to stop extreme sliding movement of the outer and inner frame sections in either direction, a cross piece fixed to the upper face of the inner sill members and adapted to project over the upper face of

both of the outer sill members, a stop
formed upon the upper face of each outer
sill member adapted to engage the project-
ing ends of said last mentioned cross piece
5 when the outer and inner frame sections are
at their innermost positions, a right and left
handed screw threaded member supported
by means of one of the upper cross pieces of
the outer sill members and the upper cross
piece of the inner sill members in such a 10
manner that when the screw threaded mem-
ber is turned in one direction it will cause
an inward movement of the frame sections
and in the other direction an extension of
said frame sections. 15

In testimony whereof, I have hereunto
signed my name to the specification.

EDWARD DRUESSEL.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,
Washington, D. C."