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(54) ENDLESS BELT DRIVING APPARATUS	(57) Abstract:
(54) APPAREIL DE TRANSMISSION DE COURROIE SANS FIL	

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IS THE EXHIBIT MARKED
 RED TO IN THE AFFIDAVIT OF
Adolphe Ruzene
 WORN BEFORE ME THIS 9th DAY OF
 March 1931.

A. A. Stough



British Pro-Consul
 British Consulate General
 PARIS.



It is greatly important, in the endless strip driving apparatus, to elastically connect the weight carrying rollers to the remaining mechanism in such a way that this elastic device should be able to absorb the vibrations produced by the ground on which the vehicle is moving, at a point as near their origin as possible.

The present invention has for its object to provide a device for elastically adjusting the roller bogies on the ~~weight~~ ^{load} carrying main equalizer, in the vehicles of the type mentioned.

In the appended drawing two embodiments of the present invention are represented, by way of example, but it should be noted that other constructions are possible, without going beyond the scope of the invention.

Figure 1 is an elevation view of an embodiment corresponding to a two bogie arrangement.

Figure 2 is a plan view of above figure, showing a part section through A-B.

Figure 3 is an elevational view of a modification of the invention.

Figure 4 shows a section through A-B of figure 3.

Throughout the figures, 1 denotes the carrying axle of the vehicle part corresponding to the driving system; this axle is secured to the frame by means of a known device, for instance, by means of plate springs 2 (figures 1,2,3). A ~~load~~ ^{weight} carrying, main equalizer 3 is fitted to oscillate on

on each axle end 1, (figures 1, 2, 3).

In the device represented on figures 1 and 2, the ~~load~~ carrying equalizer 3 is connected to the roller set by means of spiral-springs 4, which apply partly on a plate 5 provided at the lower side of said equalizer and partly on suitably shaped end plates 6, connecting the rollers of each bogie (7).

The spiral-springs are guided, at their respective ends, by buffers 8 and 9, the first of which is integral with the lower part 5 of the equalizer 3 and the second with the connecting end-plate 6.

These guide buffers 8 and 9 serve at the same time as abutments, limiting the travel of the springs 4.

In the modification represented on figures 3 and 4, instead of spiral-springs, blocks 10 and 11, of convenient shape, are used, made out of flexible material, rubber for instance, externally adjusted, inside the member 12 secured at the lower part of the equalizer 3.

The inner part of these blocks 10 and 11 is adjusted on the piece 13 connecting the rollers 7.

These connecting ties 13 possess a convenient form, so as to prevent any important longitudinal displacement of the roller set responsive to the equalizer 3.

These blocks 10 and 11 are pressed on being mounted so as to hold firmly the bogie

comprising the connecting pieces 13 and rollers 7.

As shown on the two embodiments described, an elastic connection between the rollers and the ~~road~~ carrying main equalizer, is thus realized.

In the embodiment represented on the figures 1 and 2, the spiral-springs 5 will absorb the vibrations, whichever their direction may be.

In the modification shown on figures 3 and 4, the vibrations will be quenched by the elastic blocks 10 and 11.

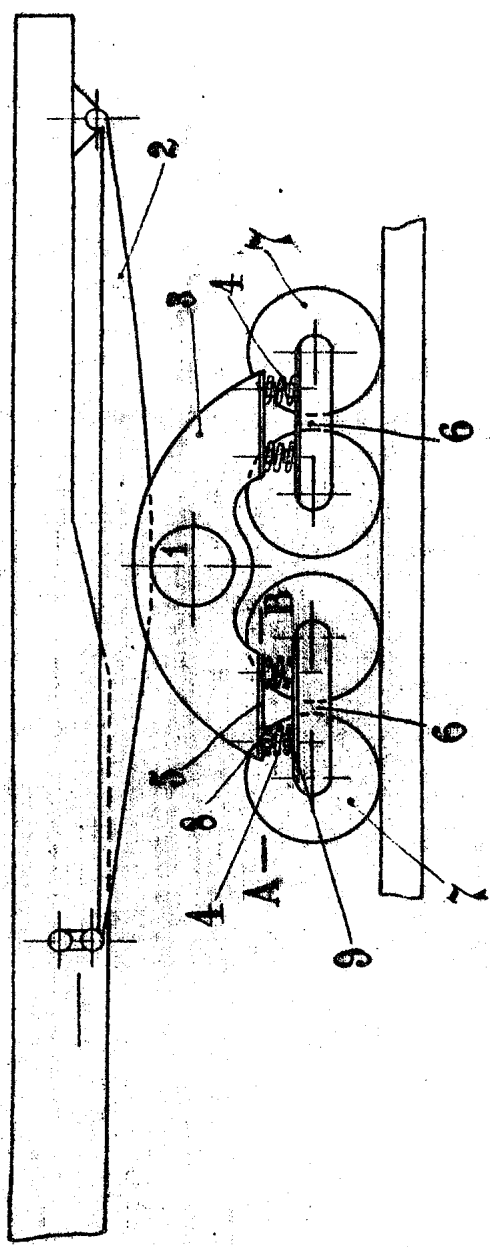
In both cases, no articulation is used; the elasticity of the springs 4, on the one hand, and the flexibility of the blocks 10 and 11 on the other hand, will allow the rollers 7 of the same bogie to perform oscillations in respect to each other.

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

1. In endless belt driving apparatus of the character described, load carrying bogies, main oscillating equalizers adjusted at each end of a carrying axle, and an elastic connection between said bogies and equalizers, whereby free movement of the bogies is permitted between each other and the equalizer. A.

2. In endless belt driving apparatus as claimed in claim 1, an elastic connection comprising springs joining the bogie rollers with the corresponding end of the equalizer.

Fig. 1.

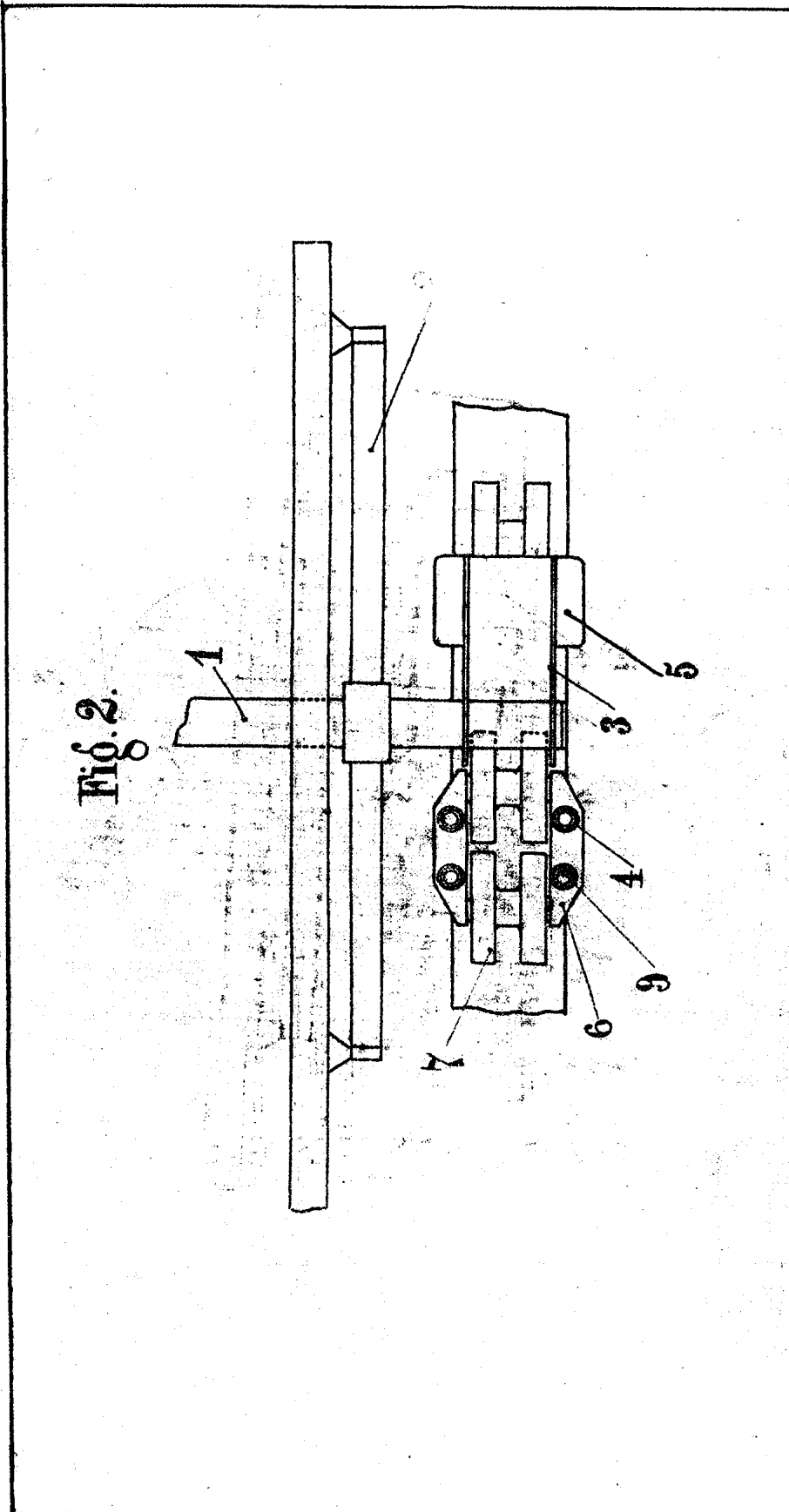


Inventor:

Certified to be the drawings referred to
in the specification hereunto annexed.
MONTREAL, December 26, 1930.

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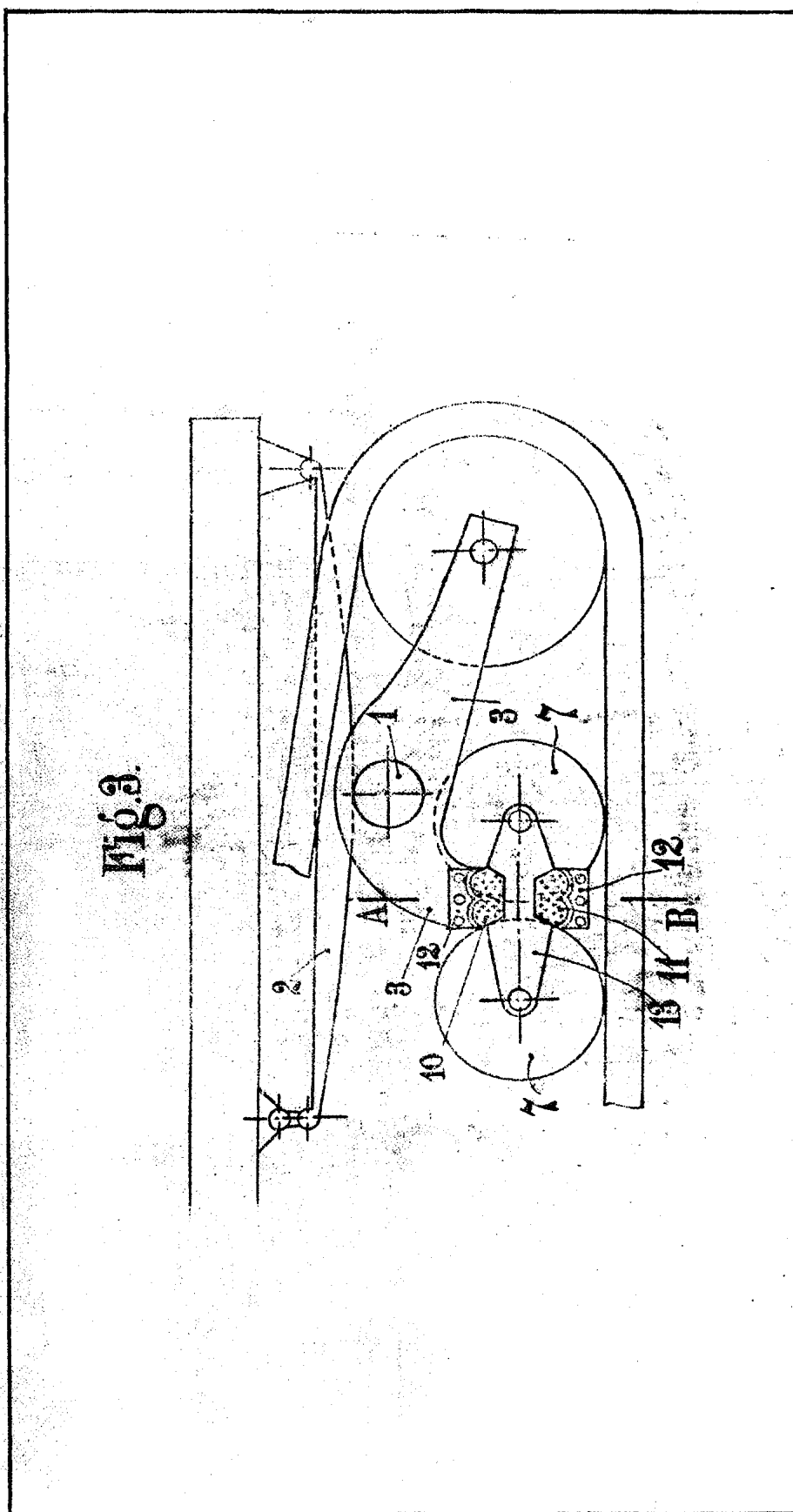
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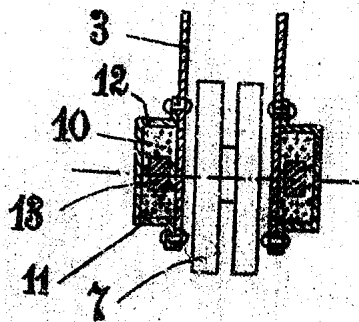
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Fig. 4.



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