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(54) **DRIVING PULLEY**

(57) **Abstract:**

(54) **POULIE DE COMMANDE**

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Expanding pulleys for flat or trapezoidal section transmission belts are already known, but such pulleys for belts comprising driving teeth are not known. The present invention relates to pulleys of this last-mentioned type.

In the accompanying drawings :

Figure 1 shows a pulley in elevation.

Figure 2 is a view in elevation of the same pulley with the external elements retracted.

Figure 3 is a section taken along the line A-B in Figure 1.

Figure 4 shows a side view of the pulley.

Figure 5 shows the application of such a pulley to the driving of the flexible band of a vehicle propelled by endless track.

The pulley is driven by a shaft 1 (Figures 1 and 3) on which is keyed a hub 2 (figure 3) comprising a flange 4.

To the said flange is permanently bolted a disc 5 (figures 2 and 3) comprising, near its centre and near its periphery, oval orifices 6 wherein bolts 7 are adapted to slide. The pulley itself is constituted by a series of elements 8 of suitable shape which, when assembled together by means of the bolts 7, form a rim which is toothed on the edges.

The flat parts 9 of the said rim serve as support for the belt, while recesses 10 accommodate the driving teeth fixed to the band. As shown in Figure 4, the said recesses may open on the outside of the rim or may be provided in the middle of the said rim.

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The elements 8 rest by their base on two outwardly conical crowns 11 (Figure 3) connected together by bolts 12, the number of which may vary. The said conical crowns 11 are slidable on the hub 2.

Assuming that the bolts 7 have been slackened off, it is evident that, by tightening the nuts of the bolts 12, the cones 11 will act upon the co-operating part of the elements 8 and cause the latter to move away from the centre, thus increasing the diameter of the pulley and at the same time the pitch of its teeth.

Figure 5 shows one of the applications of the device according to the invention, namely a driving pulley for an endless track vehicle. The Figure shows the teeth 13 permanently fixed to the endless track, which teeth engage recesses 10 formed by the assembly of the elements 8 of the pulley.

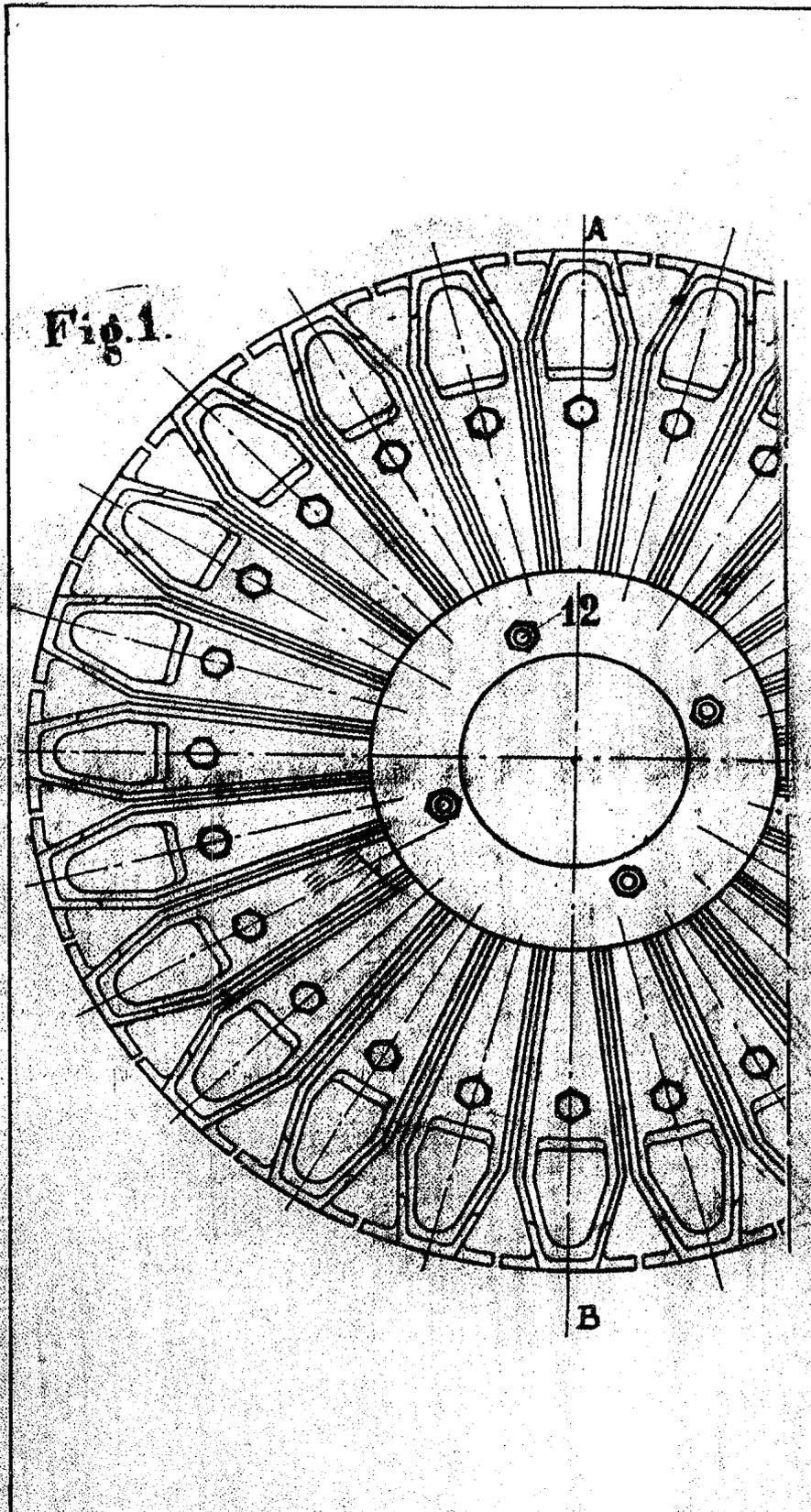
The same feature may be applied also to metallic endless belts of the type of the gall chain or to a chain for an endless track vehicle.

Having thus described my invention, I claim:-

1. An expanding driving pulley for toothed belts, comprising a plurality of assembled elements, each of which corresponds to a tooth of the belt, and means for mechanically adjusting said elements with respect to the center of the pulley.

2. A driving pulley, as claimed in claim 1, comprising a hub, a central plate secured to said hub and adapted to rotate therewith, and means for securing said elements into said plate.

A 3. An expanding driving pulley for toothed belts, comprising a hub, outwardly conical crowns slidably secured unto the hub by their central portion, a plurality of elements resting by their base on the conical elements, each of said elements corresponding to a tooth of the belt, a central plate fixed to the hub and to which the elements are secured, bolts connecting said elements together, said bolts being displaceable in oval apertures provided in the central plate, and longer bolts connecting the crowns, whereby the distance apart of said crowns may be varied.



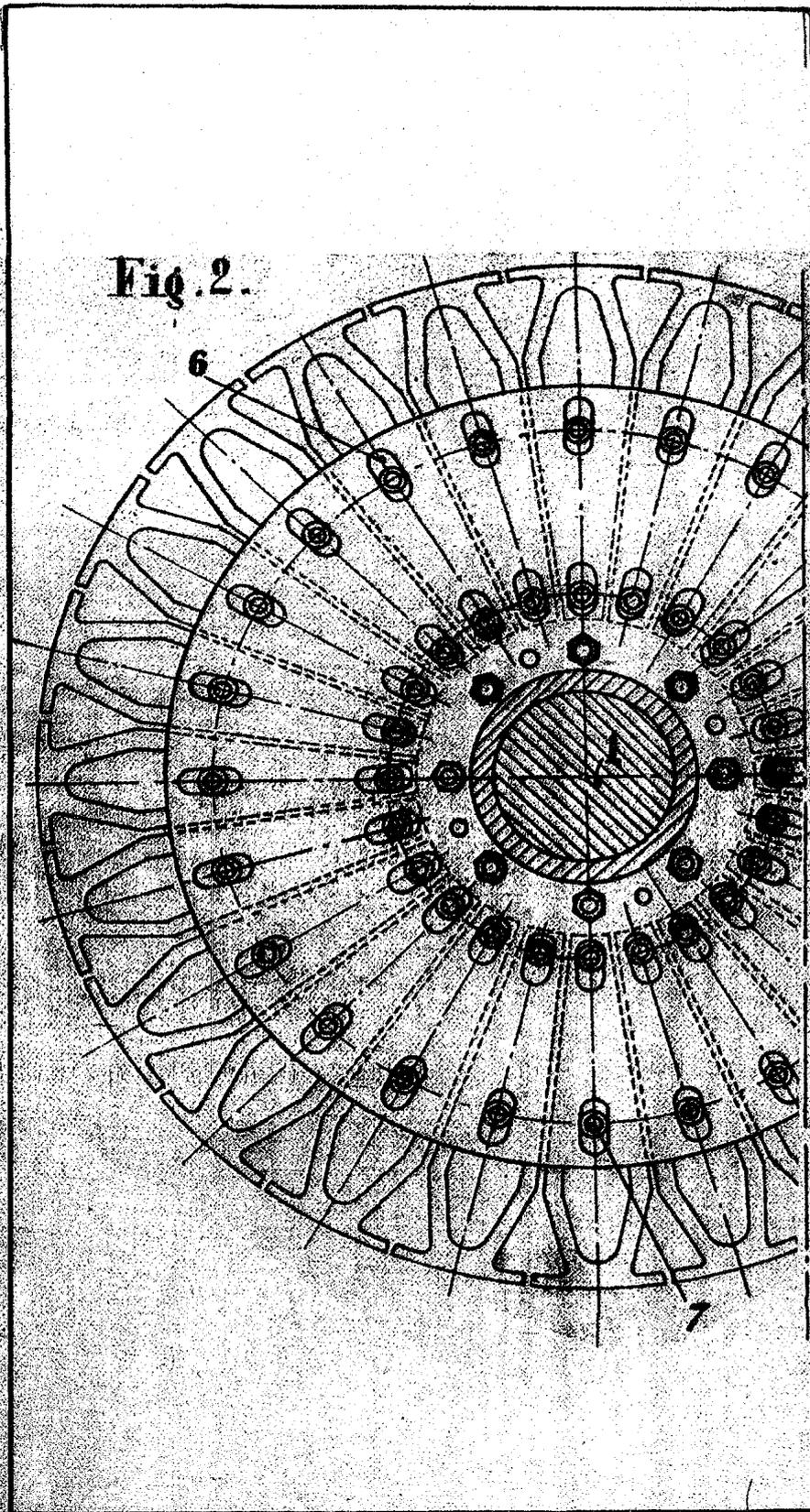
ADOLPHE KEGRESSE,
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Fig. 2.



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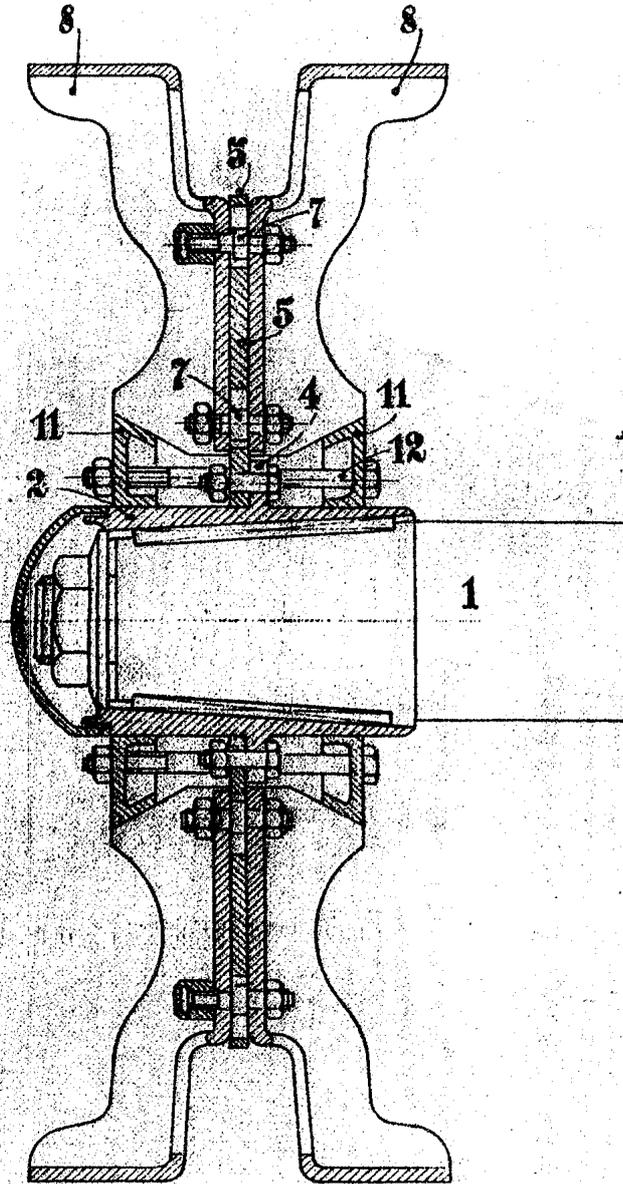
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Fig. 3



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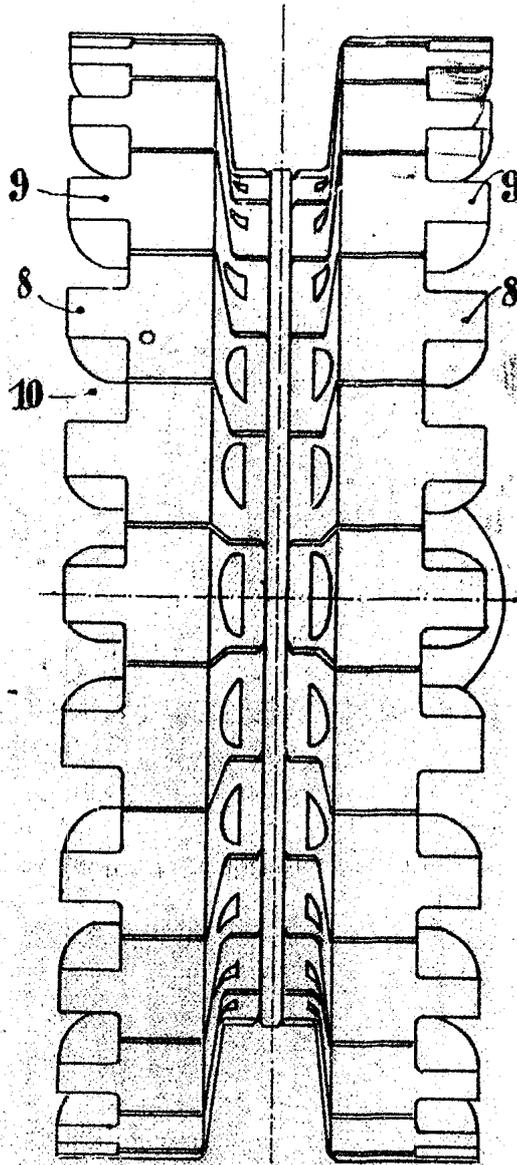
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Fig. 4



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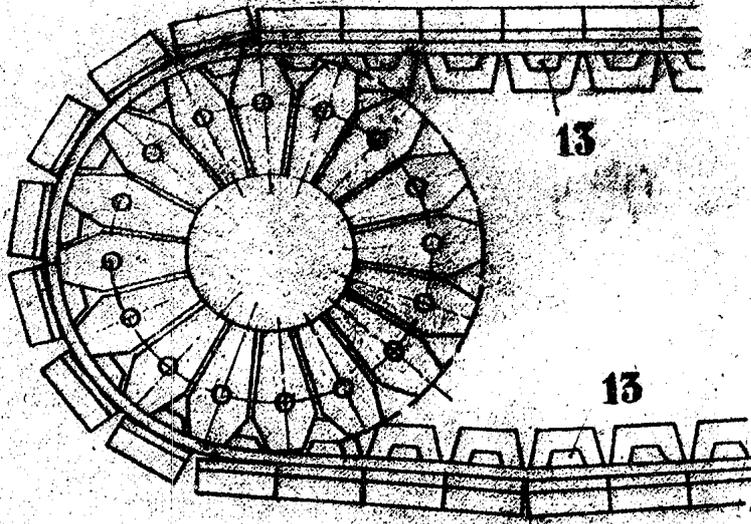
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Fig. 5.



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