A. WINSKI.

CONVEYER ATTACHMENT.

APPLICATION FILED AUG. 2, 1915.

1,173,076. Patented Feb. 22, 1916.

Fig. 1.

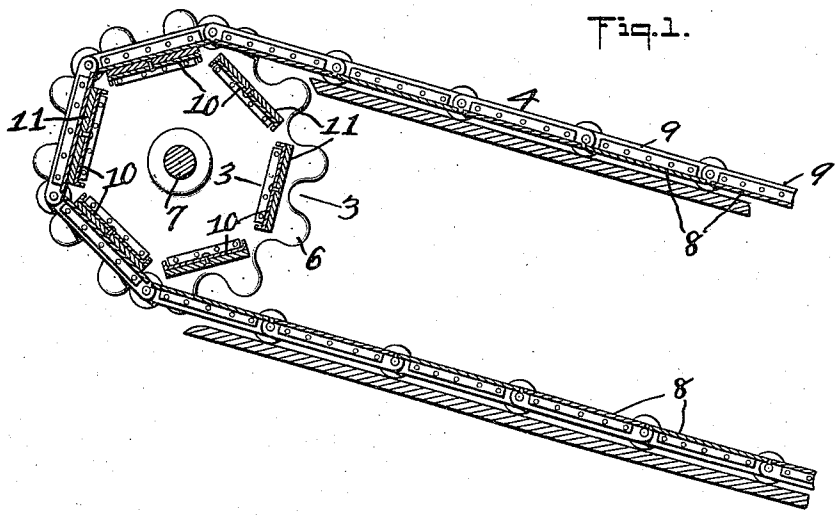


Fig. 2.

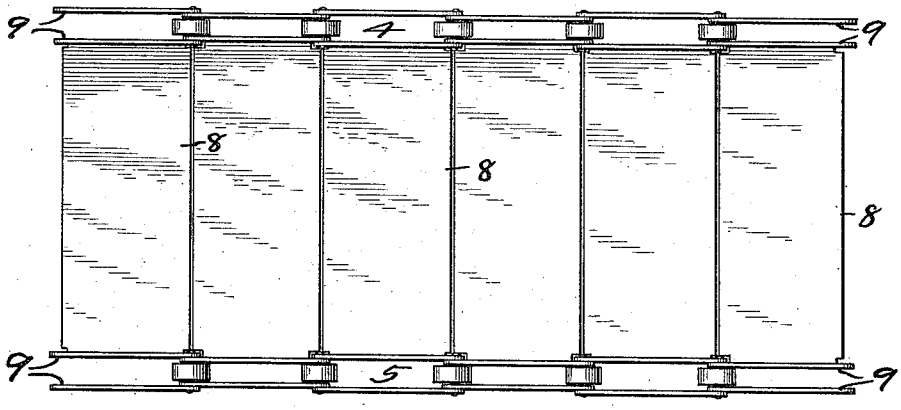
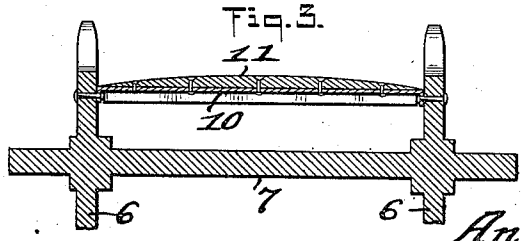


Fig. 3.



WITNESSES

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CONVEYER ATTACHMENT.

1,173,076. Specification of Letters Patent. Patented Feb. 22, 1916.

Application filed August 2, 1915. Serial No. 43,114.

To all whom it may concern:

Be it known that I, ANTON WINSKI, a subject of the Emperor of Russia, and a resident of Kooi, in the county of Sheridan and State of Wyoming, have invented certain new and useful Improvements in Conveyer Attachments, of which the following is a specification.

My invention relates to endless conveyers of the type employing plates extended between the corresponding links of two endless chains, such as used for conveying coal instead of by means of buckets. These plates are frequently bent by dumping the load thereon, thereby causing open spaces between adjacent plates through which the coal may fall. This has heretofore required that the bent plates shall be removed from the conveyer to be straightened, with the consequent expense and loss of service of the conveyer, and it was in order to overcome this defect in such conveyers that my invention was conceived.

My invention is fully described in the following specification, of which the accompanying drawings form a part, in which like characters refer to like parts in each of the views, and in which:—

Figure 1 is a longitudinal vertical section taken through a conveyer of the type stated provided with my invention; Fig. 2 is a plan view of the conveyer; and Fig. 3 is a partial section taken on the line 3—3 of Fig. 1.

In the drawings forming part of this application I have shown a portion of the conveyer to which I attach my invention, said conveyer consisting of two parallel chains 4 and 5 passing around the respective ones of two sprocket wheels carried by a shaft at each end of the conveyer, only one wheel being shown at 6 carried by a shaft 7 in Fig. 1, as this structure is old and well known. These conveyers have a transverse plate 8 connecting the respective links 9 of the chains 4 and 5 and set very close together in order to prevent loss of the material being conveyed which would otherwise fall therebetween, and these are the plates which are bent or put out of shape.

My invention consists in providing a plurality of transversely arranged plates 10 secured to the sprocket-wheels at one end of the conveyer, or both ends if desired, these plates 10 being provided with flanges in the form shown for attachment to the sprocket-wheels and for strengthening the plates, and I may provide wood or other cushions 11 on the outer sides of the plates 10 if desired.

The plates 10 are so spaced and arranged that the outer surfaces thereof are adapted to bear against the respective ones of the plates 8 as they are carried around the sprocket-wheels, and they tend to force a distorted plate 8 back into normal position to overcome the bend or distortion therein by reason of the strength of the plates 10 and the tension of the chains 4 and 5, this result being assisted by making the cushions 11 of slightly convex shape on their outer surfaces. When the plates 8 leave the sprocket-wheels and the plates 10 they are straight and the plates 10 will automatically accomplish this result as often as they are bent or otherwise distorted.

While I have shown a present preferred form of construction of my invention, it will be obvious that I am not limited thereto otherwise than as limited by the following claims, as I may make structural changes which do not depart from the spirit of my invention nor sacrifice its advantages.

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

1. The combination with a conveyer consisting of endless chains passed around sprocket-wheels and the respective links of which chains are joined by transverse plates forming the conveyer bed, of means for returning said plates to normal condition when bent or distorted by loads.

2. The combination with a conveyer consisting of endless chains passed around sprocket-wheels and the respective links of which chains are joined by transverse plates forming the conveyer bed, of means carried by said sprocket-wheels for returning said plates to normal condition if bent therefrom by loads.

3. The combination with a conveyer consisting of endless chains passed around sprocket-wheels and the respective links of

which chains are joined by transverse plates forming the conveyer bed, of plates carried by the sprocket-wheels at one end of said conveyer adapted to bear upon said conveyer plates and straighten the same if bent by loads or shocks.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses by making my mark.

his
ANTON × WINSKI.
mark

Witnesses:
L. B. HANSON,
PAUL KOBIELUSZ.

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