

H. E. HEATON.
CONVEYER BELT.

APPLICATION FILED SEPT. 30, 1908

932,015.

Patented Aug. 24, 1909.

Fig. 1.

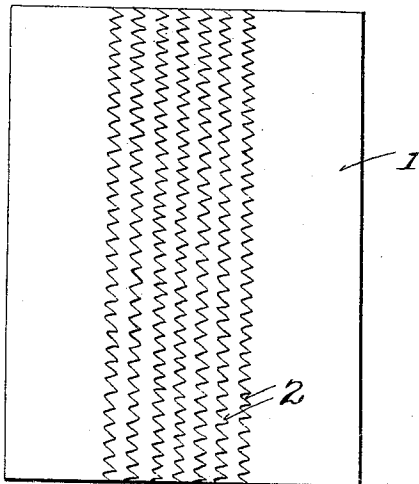


Fig. 2.

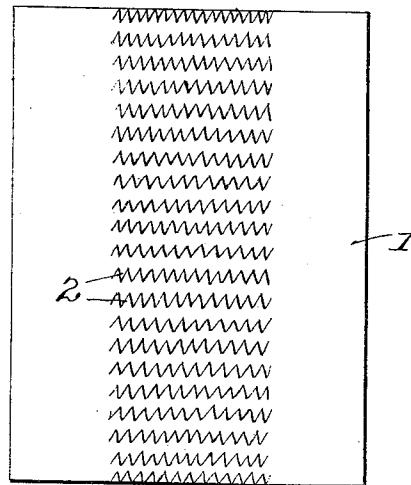
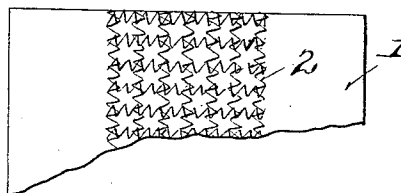


Fig. 3.



Witnesses
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UNITED STATES PATENT OFFICE.

HENRY E. HEATON, OF OROVILLE, CALIFORNIA.

CONVEYER-BELT.

932,015.

Specification of Letters Patent.

Patented Aug. 24, 1909.

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To all whom it may concern:

Be it known that I, HENRY E. HEATON, citizen of the United States, residing at Oroville, in the county of Butte and State of California, have invented certain new and useful Improvements in Conveyer-Belts, of which the following is a specification.

This invention is designed to reinforce the wearing surface of endless belts or aprons used for conveying coal, sand, ore, dredge tailings and the like.

In carrying out the invention, the portion of the belt, apron or like conveyer subjected to wear, is provided with metal coils so arranged as to preserve the flexibility of the belt or conveyer and at the same time present sufficient metal surface to receive and sustain the wear, thereby materially prolonging the period of usefulness of conveyers of the type aforesaid.

For a full understanding of the invention and the merits thereof and also to acquire a knowledge of the details of construction and the means for effecting the result, reference is to be had to the following description and accompanying drawings.

While the invention may be adapted to different forms and conditions by changes in the structure and minor details without departing from the spirit or essential features thereof, still the preferred embodiment is shown in the accompanying drawings, in which:

Figure 1 is a plan view of a section of belt or conveyer having the metal reinforcements extending lengthwise. Fig. 2 is a view similar to Fig. 1, having the metal reinforcements running cross-wise of the belt or conveyer. Fig. 3 combines both features illustrated in Figs. 1 and 2, the metal reinforcements extending both longitudinally and transversely.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

The belt, apron or conveyer is represented by the numeral 1 and may be of any construction and material usually employed for handling coal, sand, ore and the like. The metal reinforcements 2 are wire coils em-

bedded into the material comprising the belt or conveyer or fitted thereto in any manner, so as to maintain firm connection and yet become practically a part of the belt and receive and sustain the wear incident to the contact of the material therewith. These wire coils may extend lengthwise, transversely or both longitudinally and cross-wise of the conveyer, as indicated in the several views. Inasmuch as the wear is usually greatest at the center of the belt or conveyer, this part only is provided with the reinforcement, the edge portions being intact. By employing wire coils, the reinforcements are flexible and also obtain firm and positive connection with the material of the belt.

Having thus described the invention, what is claimed as new is:

1. A conveyer belt or apron, having its middle portion reinforced with a plurality of continuous metallic coils embedded in the body of the belt, and its longitudinal edge portions intact so as to sustain the linear strain.

2. A conveyer belt or apron having continuous metallic reinforcements embedded in its middle portion, so as to sustain the wear and having the longitudinal edge portions intact to sustain the linear strain and conform to the supporting surface over which the said belt or apron may pass when in operation.

3. An apron or conveyer belt having continuous parallel metal wear coils embedded in its middle portion to reinforce the same in the manner and for the purpose specified.

4. A conveyer belt or apron having closely related wire coils embedded therein in parallel relation and having other closely related parallel wire coils extending at an angle to the first mentioned set of wire coils and interlaced therewith and embedded in the metal forming the belt or apron.

In testimony whereof I affix my signature in presence of two witnesses.

HENRY E. HEATON. [L. s.]

Witnesses:

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THOS. MCKEE.