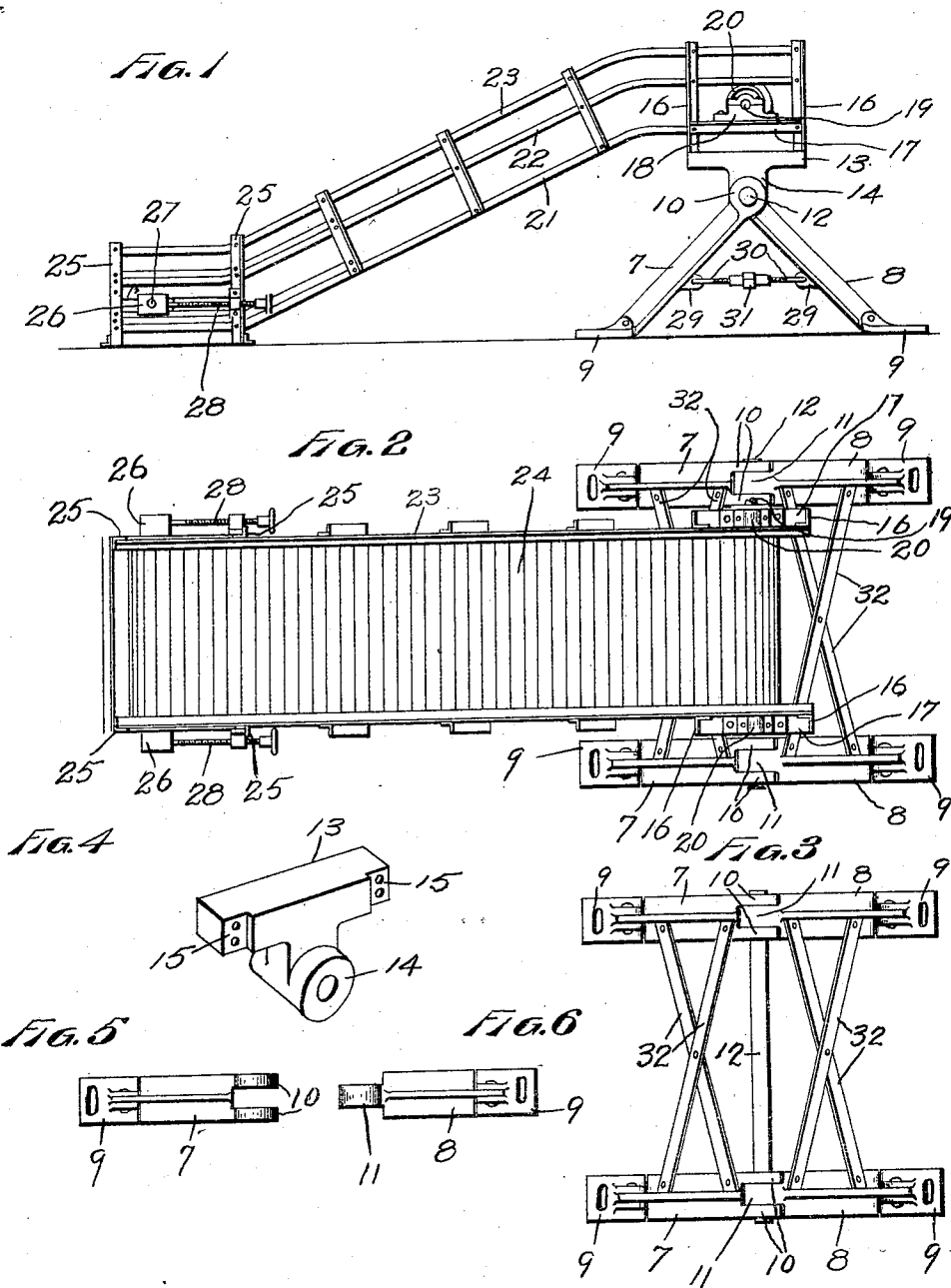


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A. J. REBSTOCK
CONVEYER

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AUGUST J. REBSTOCK, OF ST. LOUIS, MISSOURI.

CONVEYER.

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To all whom it may concern:

Be it known that I, AUGUST J. REBSTOCK, a citizen of the United States, and resident of the city of St. Louis and State of Missouri, have invented certain new and useful Improvements in Conveyers, of which the following is a specification containing a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

My invention relates to improvements in conveyers, and has for its primary object a conveyer in which the head is so mounted that it can swing pivotally and allow the supporting frame to rest securely at both ends regardless of the inclination of the floor longitudinally of the conveyer.

A further object is to construct a conveyer in which the head can be adjusted for horizontal alinement regardless of the lateral inclination of the floor.

A still further object is to construct a conveyer in which the head is pivotally mounted on standards, the standards being made adjustable so that the height of the head from the floor can be varied.

In the drawings.

Fig. 1 is a side elevation of one form of conveyer with my improvements applied thereto.

Fig. 2 is a top plan view of the same.

Fig. 3 is a top plan view of the standards with the head removed.

Fig. 4 is a perspective view of one of the head supports or cross heads.

Figs. 5 and 6 are top plan views of the legs out of which the standards are constructed.

In the construction of my device, I employ standards 7 and 8; the lower ends of these standards are provided with bases, 9 which have bolt openings for securing the same to a floor or foundation. The upper end of the standard 7, is provided with ears 10 which are spaced apart and between which the ear 11, formed on the upper end of the standard 8, fits. These ears are provided with openings so as to permit the shaft 12 to pass therethrough. Mounted on the shaft 12 and between the standards are cross heads or head supports 13; these head supports are provided with the downwardly extending portions or bosses 14 through which the shaft 12 extends. The cross heads are further provided with recesses 15 and secured within these recesses are angle

irons 16; these angle irons project upward from the cross heads and are provided with angle irons 17 to which journal boxes or bearings 18 are secured. Within these bearings is located a shaft 19 on which is secured a roller 20; this roller may be either smooth or may be in the form of a sprocket wheel, depending entirely upon the kind of conveyer used. The shaft 19 extends beyond one of the journals 18, and has attached thereto, either a pulley or gear wheel not shown, which in turn is connected to any suitable source of power. Secured to the angle irons 16 are angle irons 21, 22 and 23; the angle irons 21 and 22 serving as a rest or support for the apron 24, while the angle iron 23 acts as a guide or guard for the articles being conveyed and prevents them from slipping away from the conveyer. The lower or opposite ends of angle irons 21, 22 and 23, are secured to angle irons 25 which form the frame work of the tail and within the tail are slidably secured boxes or journals 26 in which a shaft 27 is carried. This shaft has secured thereto a roller or sprockets not shown to hold the lower end of the conveyer.

The tail is also provided with adjusting screws 28, the purpose of which is to give the proper tension to the apron or sprocket chains and to take up unnecessary slack. The standards 7 and 8 are also provided with ears 29 in which rods 30 are secured; the free end of these rods are secured within a turnbuckle 31, the purpose of these rods and turnbuckle being to draw the bases of the standards closer together or spread them apart by means of which the shaft 12, and consequently the head, is raised or lowered. The standards are further connected by tie-bars 32 which tend to stiffen the base and prevent side rocking.

By the use of my device it is possible to make a standard head and by supplying legs of various lengths to this head, the same can be raised any distance above the floor.

I am further enabled to adjust the height of the head by merely bringing together or spreading apart the bases. The horizontal alinement can be secured by the independent adjustment of the standards on one side of the machine; this is necessary where the floor inclines laterally while the longitudinal inclination of the floor is automatically taken care of by the pivoting of the cross heads.

In the present type of conveyer, it is necessary that the head be built special for every job and the supports of the head carefully measured to take care of the inclination of the floor either laterally or longitudinally of the conveyer. If this is not done, it will be necessary to level up the floors of the building where the conveyer is used, but in either case a considerable loss of time and the piling up of useless cost of installation is necessary.

I have also found it preferable to pivot the feet 9 on the standards 7 and 8 so that they will always rest solid on the base, regardless of the inclination of the standards, as I have found by experience that when the bases or feet 9 are formed integral with the standards, the adjustment of the standards to and from each other, cause these feet either to rest on the toe or heel; and consequently do not give a solid foundation as is the case when they are pivotally mounted.

Having fully described my invention, what I claim, is:

1. A conveyer comprising a pair of A frames, a shaft carried by said frames, a conveyer head pivotally mounted on said shaft, and means carried by said A frames for moving the lower ends of each frame to and from each other.

2. A conveyer comprising a pair of A frames adjustable independently as to height, means carried by each of said frames whereby its adjustment is accomplished by moving the lower ends thereof to or from each other, a shaft carried by said frames at their upper ends, and a conveyer head pivotally mounted on said shaft.

3. A conveyer comprising a plurality of standards hingedly connected together in pairs at one end, means located intermediate the ends of each pair for adjustment of the free end of said pairs of standards to and from each other, a shaft carried by said standards at their hinged end, and a pivotally mounted conveyer head carried by said shaft.

4. A conveyer comprising a pair of standards provided at their upper ends with an eye, a shaft extending through said eyes whereby said standards are hingedly connected together in pairs, means carried by each pair of standards for moving the free ends to and from each other whereby said

standards may be adjusted in pairs as to height, and a conveyer head pivotally mounted on said shaft and between said pairs of standards.

5. A conveyer comprising a plurality of standards having an eye formed on one end, a shaft extending through said eye for connecting the standards together in spaced apart pairs, means carried by each pair of standards for moving the free ends of each pair of standards to and from each other, whereby said shaft may be raised or lowered and a conveyer frame pivotally mounted on said shaft and between the standards.

6. A conveyer comprising a plurality of standards having an eye formed on one end, a shaft extending through said eye for connecting the standards together in spaced apart pairs, a turnbuckle carried by each pair of standards for moving the free ends of each pair to and from each other, and a conveyer frame pivotally mounted on said shaft and between the standards, and feet pivoted to the free ends of each of said standards.

7. A conveyer comprising a plurality of standards having an eye formed on one end, a shaft extending through said eye for connecting the standards together in spaced apart pairs, means carried by each pair of standards for moving the free ends of each pair to and from each other, for raising and lowering and leveling said shaft and a conveyer frame pivotally mounted on said shaft and between the standards, and tie bars for securing said standards against side sway.

8. A conveyer comprising a plurality of standards having an eye formed on one end, a shaft extending through said eye for connecting the standards together in spaced apart pairs, means carried by each pair of standards for moving the free ends of each pair to and from each other, for leveling said shaft and regulating its height and a conveyer frame pivotally mounted on said shaft and between the standards, and feet pivoted to the free ends of said standards, said feet being provided with openings to permit the passage of fastening means therethrough, and tie bars for securing said standards against side sway.

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

AUGUST J. REBSTOCK,