Sept. 6, 1927. 1,641,642

R. H. PANGBORN

CONVEYER CHAIN

Filed Aug. 5, 1926

Fig. 1.

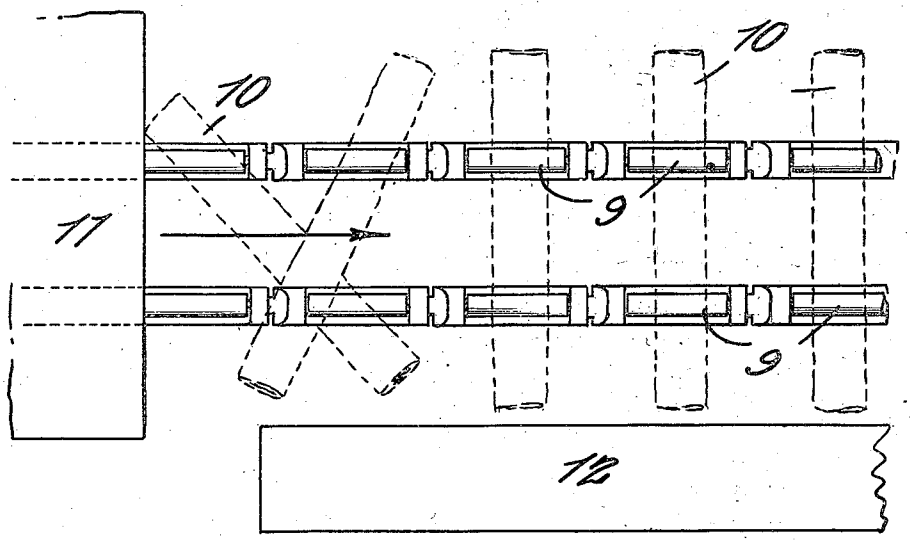


Fig. 2.

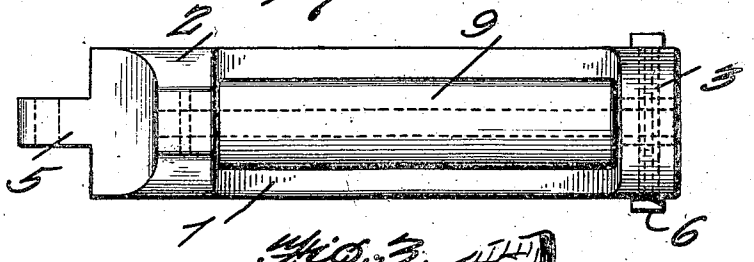
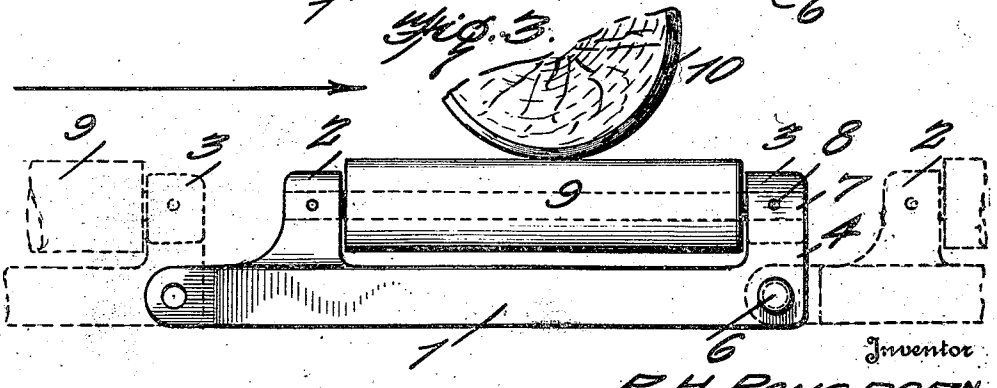


Fig. 3.



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UNITED STATES PATENT OFFICE.

REDMOND H. PANGBORN, OF TACOMA, WASHINGTON, ASSIGNOR OF ONE-FOURTH TO A. P. H. HUDSON AND ONE-FOURTH TO ROBERT S. HUDSON.

CONVEYER CHAIN.

Application filed August 5, 1926. Serial No. 127,388.

This invention relates to improvements in conveyers for logs and the like comprising more particularly the use of companion logs which are particularly constructed to facilitate the carrying of the logs and permit and facilitate the withdrawal of the logs in a direction which at substantially right angles to the path of movement of the conveyer with less frictional resistance than would be incident to such operation with conveyers now in use.

The invention is illustrated in the accompanying drawings, in which:

Fig. 1 is a more or less diagrammatic view showing the use of improved conveyer chains in the carrying of logs.

Fig. 2 is a plan of one of the links of the chain.

Fig. 3 is a side elevation of the same with the connected links in dotted outline.

The improved chain is made up of links which include a base 1 having upstanding projections 2 and 3, at the respective ends. The projection 3 is, below the upper portion thereof, divided to provide a recess 4 which extends into the base 1. The projection 2 at the opposite end of the link is spaced from such link end and the link end proper is in the form of a lug 5 adapted to seat in the recess 4 of the adjacent link. The pivot pin 6 extends through the walls of the recess 4 and lug 5 to couple the links flexibly together. A spindle 7 is supported in the respective projections 2 and 3 extending longitudinally of the link and this spindle is preferably fixed in position by transverse pins 8. A roller 9 is rotatably supported upon the spindle having a length substantially equalling the distance between the projections 2 and 3 and a diameter which will permit the upper surface of the roller to lie in a plane above the upper ends of the projections.

Assuming companion chains arranged in spaced relation to be travelling in a direction of the arrow indicated in Fig. 1 and the lumber, here indicated as logs 10, delivered from a loading platform 11 will fall onto the conveyer chains for delivery at a remote point. As the logs are delivered they will frequently fall at an angle other than a right angle to the conveyer chains, and it is necessary to straighten such logs for convenient transportation. For this purpose an operator's platform 12 is arranged adjacent the line of travel of the chains and the logs are straightened by the operator through the use of a cant hook or other implement. It is further necessary, at times, to withdraw a log during the travel of the chains, and as this movement of the log is at right angles to the path of movement of the chains, and such log is supported upon rollers mounted for rotation in that direction, the removal of the log may be conveniently secured in an expeditious manner.

The rollers act as the sole supporting elements for the logs thus facilitating the adjustment of the logs into a position substantially at right angles to the conveyer chains for convenient transportation and also materially facilitate the movement of the log at right angles to the path of movement of the chains in the event it is desired to remove the log from the conveyer.

I am aware that devices for the same general purposes as above described are known in the art, but so far as I am aware such devices involve an element which is not to be found in the construction of my improved conveyer. For example, conveyers having rollers whose axes are parallel to the conveyers have been proposed, but in such constructions the rollers are covered, there being an aperture in the cover through which a portion of the upper circular surface of the roller projects. It is clear that no such cover nor equivalent thereof is involved in my invention, but nevertheless the construction described accomplishes everything that such covered rollers can accomplish.

What I claim as new is:

1. A log carrier including a chain made up of a series of movably connected links, each link carrying a roller, the axis of which is arranged longitudinally of the link with the roller constituting substantially the full supporting surface of the link.

2. A link for log carrying chains and the like comprising a base having upstanding projections at the respective ends thereof and a roller supported in said upstanding ends and extending throughout the greater portion of the length of the base and arranged wholly above the same.

In testimony whereof I affix my signature.

REDMOND H. PANGBORN.