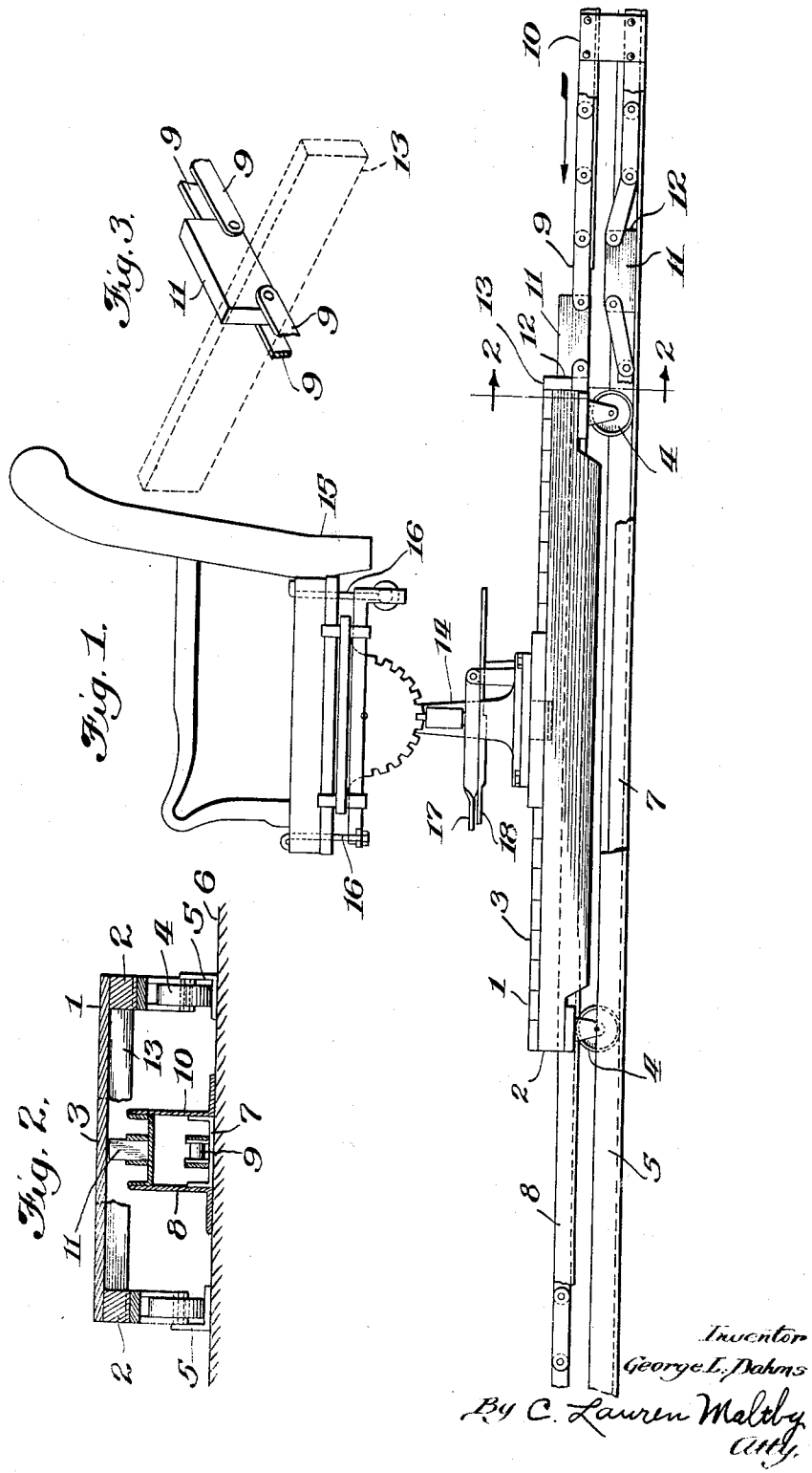
Nov. 29, 1932. G. L. DAHMS 1,889,274

FURNITURE CONVEYER

Filed Feb. 21, 1930



Patented Nov. 29, 193'

1,889,274

# UNITED STATES PATENT OFFICE

GEORGE L. DAHMS, OF COLUMBIANA, OHIO

## FURNITURE CONVEYER

Application filed February 21, 1930. Serial No. 430,160.

My invention relates to furniture conveyers and more especially to conveyers on which an adjustable frame is secured and to which an article of furniture may be attached during the processes of manufacture, such that the conveyer may be progressed as desired thru various parts of the factory.

Heretofore in manufacture of furniture, upon the completion of a given operation, it has been customary to load the partly completed furniture articles upon trucks, send them to the next advancing department and unload them while working upon them there. This process is repeated as the work is continued throughout the factory, with a resultant handling, a large part of which may be obviated thru the employment of my hereinafter described invention.

My invention comprises essentially the securing of a furniture frame on an adjustable mounting, which in turn is supported on a movable conveyer car or chassis, which is coursed thru the factory by a continuous chain or belt which is adapted to engage the car upon the completion of one operation and send it to the next department for the next operation, where it is then disengaged from the driving means while additional work is being done upon it.

It is an object of my invention to provide a simple practical and efficient furniture conveyer.

Another object of my invention is to provide a furniture conveyer on which an article of furniture can be progressed thru the various departments of the factory and stopped as desired for the various manufacturing operations.

A further object of my invention is to provide a furniture conveyer on which the article of furniture remains during its entire course of manufacture.

Other objects and advantages will appear and be brought out more fully in the following specification, reference being had to the accompanying drawing in which Fig. 1 is a side view of the conveyer, showing a supporting frame and an article of furniture secured thereon;

Fig. 2 is a cross sectional elevation taken along the line 2—2 of Fig. 1; and

Fig. 3 is a perspective view of a portion of the conveyer belt, showing one of the engaging abutments and the removable engaging bar.

Referring more especially to the drawing, I show a chassis or car 1, having frame members 2, cross members 3 and wheels 4. Guide tracks 5 are provided which may consist of angle irons or other suitable shapes as desired, and are laid on the floor 6 of the factory and run the entire length of it or as far as may be necessary for the various operations of manufacture.

Between tracks 5 are mounted guides 7 and 8 for the support of a driving chain or belt 9, which is continuous and adapted to move in one direction in guide 7 and in the opposite direction in guide 8. Guides 7 and 8 are preferably channel irons, mounted with guide 8 above guide 7, and a plurality of supporting plates 10 are preferably employed for this purpose.

At intervals in chain or belt 9 are abutment members 11, having abutting portions 12. Chain 9 and members 11 are adapted to pass under the cross member 3 of the car 1 without engaging any part of the car, and an engaging bar 13 is provided and adapted to be placed across belt 9 between abutment 12 and the end of the car. The belt being continuously moving, upon the engagement of bar 13 and member 11, the car, will be progressed along the track. When it is desired to stop the car, the bar 13 is removed, which will permit belt 9 to continue under the car which is now without motive power and is stopped. An adjustable supporting frame 14 is mounted on car 1 and to frame 14 an article of furniture 15 may be supported and secured as by clamps 16. Levers 17 and 18 permit adjustable positioning of article 15 on frame member 14 and car 1, by which all parts of the article 15 may be readily presented for the various manufacturing operations.

Upon the completion of a given operation, the bar 13 is inserted in place and the car 1 with the article 15 is progressed thru the factory to the next department for the succeed-

ing operation, and bar 13 is removed. This process is repeated thru as many departments of manufacture as are necessary and eliminates the necessity of loading the articles 15 on trucks and uloading them again while they are being worked upon and again reloading.

The operation of my invention thus saves the entire time heretofore used in loading and unloading, and permits the maximum efficiency of manufacture by having the processes continuous.

It will be understood that changes and modifications may be made without departing from the true scope of my invention, the embodiment herein shown being illustrative only, as it is not my desire to limit my invention to the exact form shown.

Having described my invention, what I claim is:

1. A furniture conveyer comprising in combination, a movable supporting element, continuous driving means therefor, engaging members on said means, a removable engaging element adapted to provide engagement with said supporting member and said engaging members, guides for said supporting and said driving means, and an adjustable frame for holding and securing an article of furniture thereon.

2. A furniture conveyer comprising in combination, a movable supporting element, continuously operating driving means therefor, engaging members on said driving means having abutments, a removable engaging bar adapted to engage said abutments and said supporting element, guides for said element and said driving means, and an adjustable frame on said supporting element adapted to support and secure an article of furniture thereon.

3. A furniture conveyer comprising in combination, a movable car having wheels, tracks for said wheels, a continuous driving element for said car, engaging members on said driving element having abutments, an engaging bar adapted to engage said abutments, guides for said driving element disposed between said tracks, and an adjustable furniture supporting frame on said car.

4. A furniture conveyer comprising in combination, a movable car having wheels, guide tracks for said wheels, an endless chain for driving said car, abutment members secured to said chain, guides for said chain disposed between said guide tracks, an engaging bar adapted to engage said abutments and said car, and an adjustable frame for supporting and holding an article of furniture, said engaging bar being adapted to be removed to disengage said car from said driving chain.

5. A furniture conveyer comprising in combination, a movable car, guide tracks for said car, driving means for said car comprising an endless belt having abutting members secured thereto, guide members for said driving means disposed between said guide tracks, a removable engaging bar adapted to engage said car and said abutting members, and an adjustable frame for holding and supporting an article of furniture, said car being adapted to pass over said driving means and the guide members therefor.

6. A furniture conveyer comprising in combination, a movable car, guide tracks for said car, driving means for said car comprising an endless chain adapted to pass under said car, a supporting frame on said car adapted to adjustably support and secure an article of furniture thereto, engaging members on said driving chain, a removable bar adapted to engage said car and said engaging members for the propulsion of the car and to disengage said car and said engaging members to stop said car, and guide members for said driving chain comprising a plurality of horizontally disposed channel members supported one above the other between the car guide tracks.

7. A furniture conveyer comprising in combination, a movable car, guide tracks for said car, means for propelling said car on said guide tracks comprising an endless chain adapted to pass said car, said chain having ordinary links and abutment links, a removable bar adapted to be placed across said chain and make abutment contact between said abutment links and said car for propelling said car and to be removed to stop said car, and a supporting frame on said car adapted to adjustably support and secure an article of furniture thereto.

In testimony whereof, I hereunto set my hand.

GEORGE L. DAHMS.