

No. 858,641.

PATENTED JULY 2, 1907.

C. F. WHISLER & J. R. WHITNEY.  
GAGE ATTACHMENT FOR VENEER MILLS.

APPLICATION FILED JULY 19, 1906.

2 SHEETS—SHEET 1.

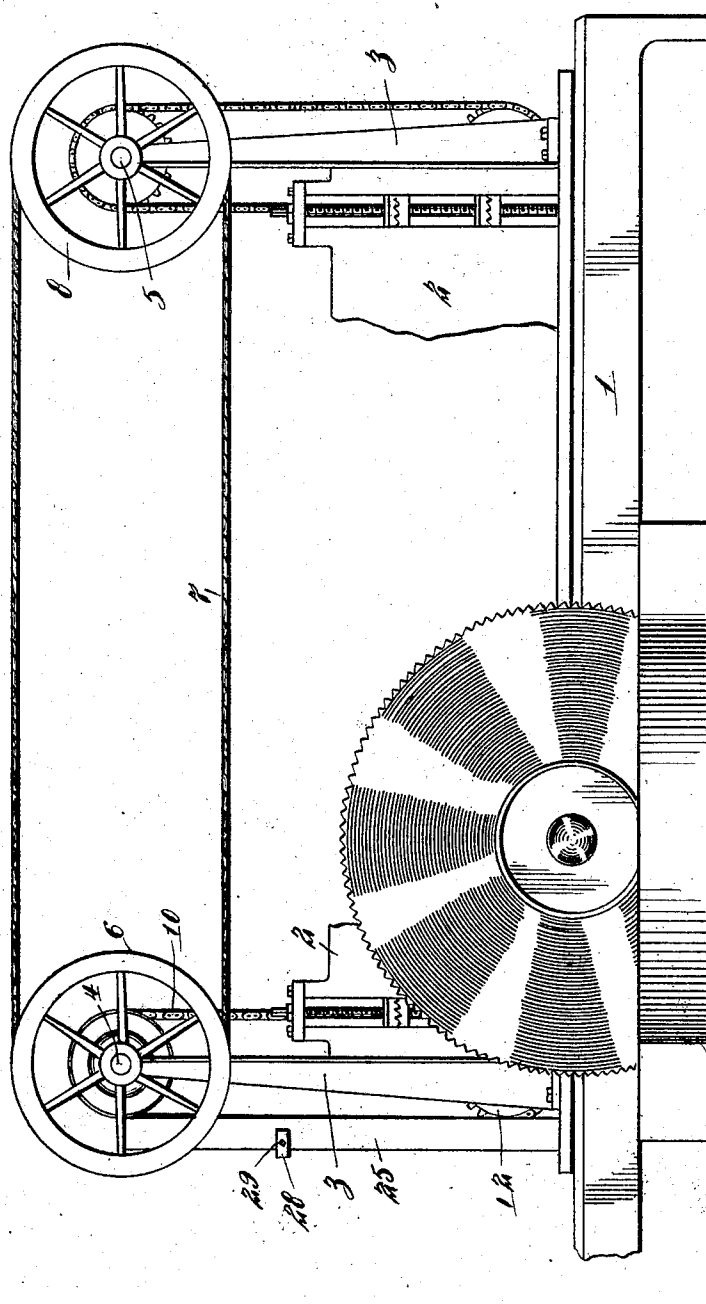


Fig. 1.

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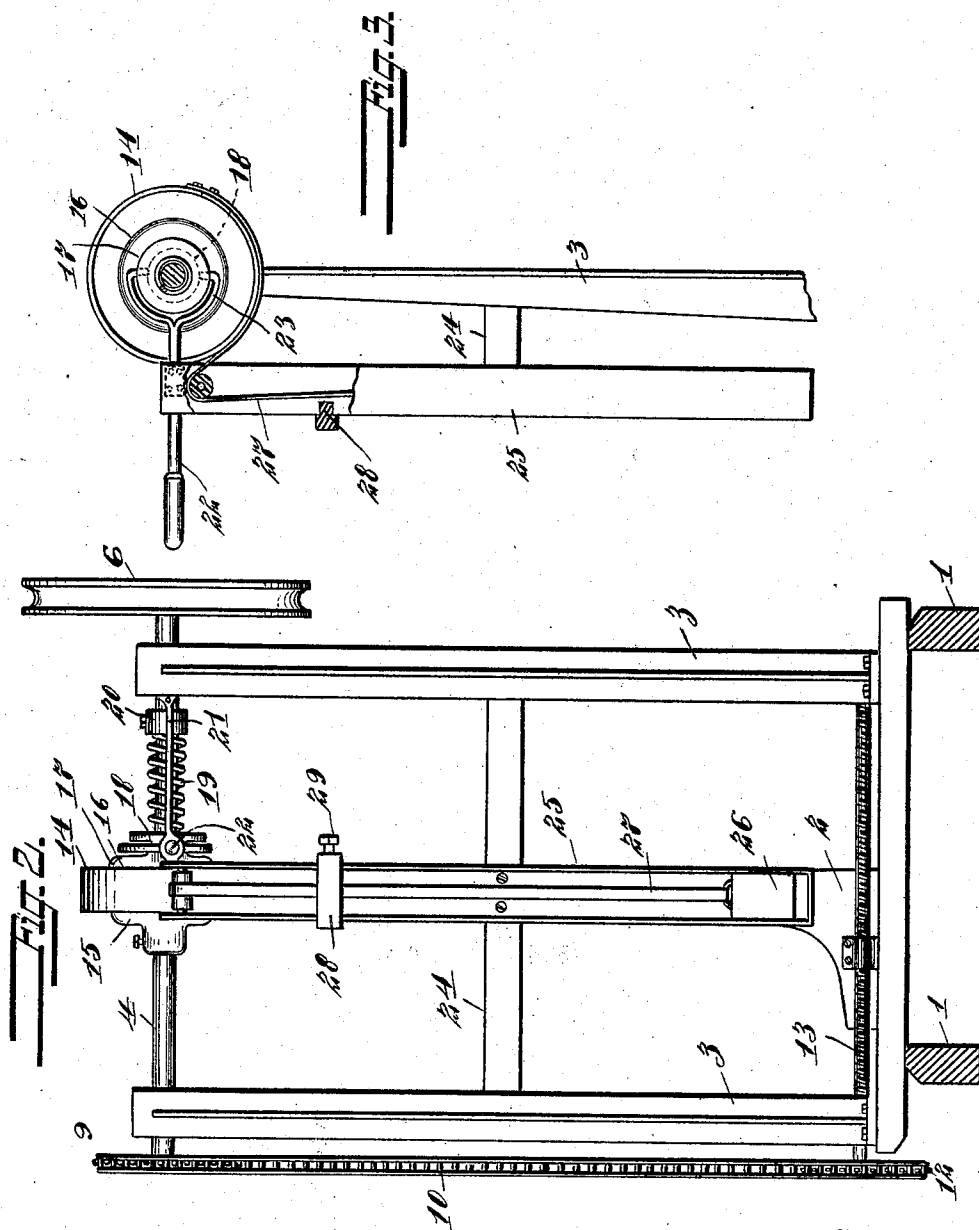
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# UNITED STATES PATENT OFFICE.

CHARLES F. WHISLER AND JOHN R. WHITNEY, OF HILLSBORO, OHIO.

## GAGE ATTACHMENT FOR VENEER-MILLS.

No. 858,641.

Specification of Letters Patent.

Patented July 2, 1907.

Application filed July 19, 1906. Serial No. 326,902.

*To all whom it may concern:*

Be it known that we, CHARLES F. WHISLER and JOHN R. WHITNEY, citizens of the United States, residing at Hillsboro, in the county of Highland and State of Ohio, have invented certain new and useful Improvements in Gage Attachments for Veneer-Mills; and we do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in gage attachments for veneer mills.

The object of the invention is to provide a gage of this character by means of which sheets of veneer may be sawed at precisely the same thickness and by means of which the thickness of the veneer may be varied without the necessity of stopping the carriage.

A further object of the invention is to provide a gage device of this character by means of which the necessity of the usual graduated dial is obviated, and to provide a gage which will be simple, strong and durable in construction, easy to operate and by the use of which a great saving of time is provided.

With the above and other objects in view, the invention consists of certain novel features of construction, combination and arrangement of parts, as will be hereinafter described and claimed.

In the accompanying drawings:—Figure 1 is a side view of a portion of a veneer saw mill, showing the application of the invention thereto; Fig. 2 is an end elevation of the same, partly in section; and Fig. 3 is a vertical sectional view on an enlarged scale of a portion of the supporting frame having the invention applied thereto.

Referring more particularly to the drawings, 1 denotes the main supporting frame or body of the machine, upon which is slidably mounted a log or block carrying mechanism or carriage 2, upon which is mounted a block of veneer to be sawed. The carriage 2 is provided with the usual stay-log securing device having clamps or dogs for holding the block or flitch to be sawed.

On the opposite ends of the carriage are secured upwardly-projecting bearing standards 3, in the upper ends of which are mounted transversely-disposed shafts 4 and 5. On one end of the forward shaft 4 is mounted a pulley or a sprocket wheel 6, the former being shown in the present instance. The pulley 6 is provided with a groove to receive an endless operating rope or cable 7, said cable passing around a similar pulley 8 mounted on the shaft 5 in the bearing standards at the rear end of the machine. On the other end of the shaft 4 is fixedly mounted a sprocket gear 9, said gear being connected by a sprocket chain 10 with a sprocket gear 12 fixedly mounted on one end of a threaded adjusting screw or shaft 13, which is journaled in suitable bearings on the

forward end of the carriage and is adapted to work in suitable pivotal connections on the stay-log, whereby the latter and the flitch secured thereto may be moved back and forth from and toward the saw. These parts may be of the usual or any desired construction and form no part of the present invention.

Mounted on the shaft 4 is a loose pulley 14, and on one side thereof and in engagement therewith is mounted a clamping collar 15, said collar being adjustably secured on the shaft 4 by means of a set screw or other fastening device. On the shaft 4 adjacent to the other side of the pulley 14 is arranged a friction clutch 16, said clutch comprising a clamping collar or plate 17, which is provided with an annular groove 18 and which is normally held in frictional engagement with the side of the pulley by a coil spring 19. One end of the spring 19 is adapted to bear against the plate 17 while its other end engages a collar 20 which is adjustably secured to the shaft 4 by means of a set screw or other fastening device. By adjusting the collar 20 on the shaft 4, the tension of the spring 19 may be regulated.

Secured to one of the uprights or standards 3 is a horizontal inwardly-projecting bearing bracket 21, in the inner end of which is pivotally mounted a shifting lever 22. The inner end of the lever 22 is bifurcated or forked as shown at 23, and is adapted to engage an annular groove 18 in the clamping plate 17, as shown. The opposite end of the lever 22 projects forwardly beyond the end of the carriage and is provided with a handle by means of which the same is operated to engage and disengage the clamping plate 17 from the loose pulley, thereby locking or unlocking the same into and out of engagement with the shaft 4.

Secured to the uprights or standards 3 at the forward end of the carriage is a horizontally disposed cross bar 24, to which is secured a vertically disposed guide frame 25, in which is slidably mounted a weight 26. The weight 26 is connected to the lower end of a strap 27, the other or upper end of which is connected to and adapted to be wound upon the loose pulley 14 when the same is locked into engagement with and turned by the shaft 4. On the guide frame 25 is arranged a stop 28, by means of which the up movement of the weight 26 is limited. The stop 28 is preferably in the form of a clamp and is adapted to be held in adjusted positions upon the frame 25 by means of a set or clamping screw 29.

In practice, when it is desired to adjust the stay-log and flitch to the proper position for sawing the veneer the cable or rope 7 is grasped and pulled in the proper direction to revolve the shaft 4, which in turn will operate the sprocket chain 10, thereby turning the gear 12 and the threaded shaft or adjusting screw 13 in the proper direction to shift said stay-log and flitch. When thus turning the shaft 4, the pulley 14 which is normally locked to the shaft 4 by the spring clutch

device 16 will also be turned and will wind upon the strap 27 and raise the weight 26 until the same is brought into engagement with the stop 28, by means of which further upward movement of the weight is prevented and the movement of the shaft 4 and the parts driven thereby stopped, thus limiting the feed of the stay-log and flitch and providing for the accurate adjustment and the cutting of each successive veneer. The movement of the stay log and flitch may be varied by the adjustment of the stop 28, as will be understood, thereby providing for the cutting of veneers of any desired thickness. By means of the shifting lever 22, the clutch device 16 may be actuated to release the pulley 14, thereby permitting the weight to drop back to its normal position.

From the foregoing description, taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Having thus described our invention, what we claim as new and desire to secure by Letters-Patent, is:—

1. A gage attachment for veneer saw mills having standards carrying a feed screw operating shaft, said attachment comprising a pulley loosely mounted on the feed screw adjusting shaft of the mill, a clamping plate adapted to lock said pulley into engagement with said shaft, a spring to normally hold said clamp into engagement with the pulley, a shifting lever to disengage said clamping plate from the pulley, a strap having one end secured to and adapted to be wound upon said pulley, a weight on the

opposite end of said strap, a vertically-disposed guide frame adjacent to said standards in which the weight is guided, a stop clamp arranged in the path of said weight, and means to hold said stop in adjusted position upon said frame, whereby the upward movement of the weight may be limited and the movement of said screw adjusting shaft regulated, substantially as described.

2. A gage attachment for veneer saw mills comprising a pulley loosely mounted on the feed screw adjusting shaft of the mill, a fixed collar adapted to engage one side of said pulley, a slidably mounted clamping plate or collar adapted to engage the opposite side of said pulley and to frictionally lock the same into engagement with the shaft, a spring to normally hold said clamping plate in locking engagement with said pulley, an adjustable stop collar to adjust the tension of said spring, a shifting lever to disengage the clamping plate from the pulley, a vertically-disposed guide frame arranged on the carriage of the mill, a weight slidably mounted in said guide frame, a strap connected at its lower end to said weight and adapted to be wound upon said pulley when driven by said shaft, a guide roller to support the upper end of said strap, a stop clamp arranged on said frame in the path of movement of the weight, and a set screw adapted to hold said stop clamp in adjusted positions, thereby limiting the upward movement of the weight and thus regulating the movement of the adjusting shaft and feed screw of the machine, substantially as described.

In testimony whereof we have hereunto set our hand in presence of two subscribing witnesses.

CHARLES F. WHISLER.  
JOHN R. WHITNEY.

Witnesses:

J. FRANK WILSON,  
N. CRAIG MCBRIDE.