Jan. 16, 1923. 1,442,664.

N. HANSEN.

ADJUSTABLE SEAT.

FILED FEB. 27, 1922.

Fig. 1

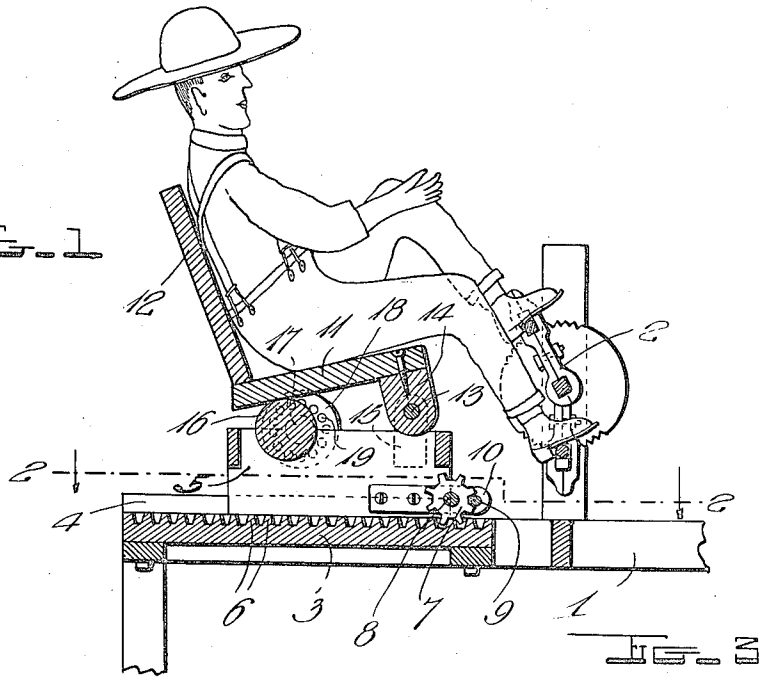


Fig. 3

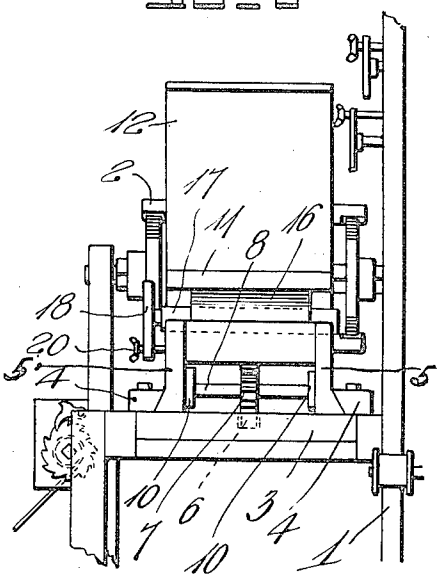
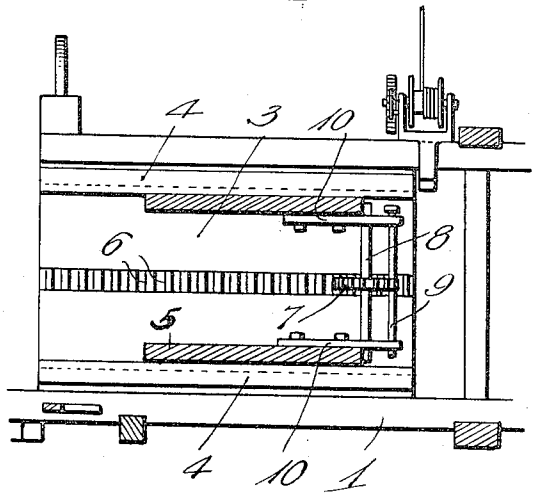


Fig. 2



Inventor

Niels Hansen

By Wilkinson & Co

Attorneys

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UNITED STATES PATENT OFFICE.

NIELS HANSEN, OF EAST STANWOOD, WASHINGTON.

ADJUSTABLE SEAT.

Original application filed August 9, 1920, Serial No. 402,134. Divided and this application filed February 27, 1922. Serial No. 539,468.

To all whom it may concern:

Be it known that I, NIELS HANSEN, citizen of the United States, residing at East Stanwood, in the county of Snohomish and State of Washington, have invented certain new and useful Improvements in Adjustable Seats; and I 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 application relates to improvements in adjustable seats and more particularly to those adapted primarily for use upon wood sawing machines, the present invention forming a division of my pending U. S. application, Serial No. 402134, filed August 9, 1920.

It is the object of the invention to provide a simple and inexpensive, yet a highly efficient and desirable seat for the operator of a machine, preferably of a treadle operated machine, the construction being such that the seat may be readily adjusted toward and from the foot treadle or adjusted vertically, according to the requirements and size of the operator.

With the foregoing in view, the invention resides in the novel subject matter hereinafter described and claimed, the description being supplemented by the accompanying drawings:

Figure 1 is a vertical sectional view of an adjustable seat constructed in accordance with my invention showing its association with the foot treadle of a wood-sawing machine.

Figure 2 is a horizontal sectional view as indicated by line 2—2 of Figure 1.

Figure 3 is a rear elevation of the adjustable seat and associated parts.

In the drawings above briefly described, I have shown my invention in connection with a portion of the frame 1 of a wood-sawing machine, upon which frame a foot treadle 2 is mounted for operating the machine. Behind this foot treadle, the frame is provided with a platform 3 having a pair of parallel tracks 4 between which a suitable chair-base 5 is slidably received, said base being supported by the platform 3. This platform is provided with a series of rack teeth 6 which mesh with a spur gear 7 on a shaft 8, a removable rod 9 being adapted for engagement with said gear and with a pair of bearings 10 carried by the base 5, so that this base may be held against sliding along the tracks 4 after it is once adjusted to the desired position. By removing the rod 9, the base may be slid either forwardly or rearwardly as required but when this rod is again engaged with the bearings 10 and the gear 7, movement of said base is prevented.

Above the base 5 and pivoted at its front end thereto, is a chair seat 11 having a rigid back 12, the pivotal connection between the front end of the seat 11 and the base being preferably effected by means of a transverse rod 13 passing through a depending bearing 14 on said seat and through upstanding bearings 15 with which the sides of the base 5 are provided. The rear end of the seat 11 rests on an eccentric 16 having trunnions 17 rotatably supported by the sides of the base 5 and it will be seen that by rotating said eccentric, the inclination of the back 12 and the seat 11 may be varied and also the rear end of said seat may be raised or lowered as occasion may require. For adjusting the eccentric in this manner, one of the trunnions 17 is by preference provided with a hand-wheel 18 having a circumferential series of openings 19 through any one of which a pin 20 may be passed for engagement with the base 5, so as to hold the eccentric in adjusted position.

By employing the construction shown and described, the seat may be moved forwardly or rearwardly or adjusted in height or inclination, to meet the requirements of the operator.

Since excellent results have been obtained from the details disclosed, they are preferably followed, but within the scope of the invention as claimed, numerous minor changes may be made.

I claim:

1. A device of the class described comprising a base having parallel side members positioned vertically, a seat above said base pivotally connected at its front end therewith, the pivotal connection of said seat with said base including an elongated bearing extending substantially throughout the width of and secured in contact with said seat throughout its length, an eccentric supporting the rear end of the seat, said eccentric being of a length substantially equal to the width of the seat and having its ends in

abutting relation with the inner sides of said side members, trunnions extending outwardly from the ends of said eccentric and rotatably resting upon said side members, and means associated with one of said trunnions for turning the same and holding it in adjusted position.

2. A device of the class described comprising a base composed of parallel side boards standing on edge in vertical planes and cross bars connecting said side boards, upstanding bearings on the front ends of said side boards, the upper edges of said side boards having bearing notches near their rear ends, an elongated eccentric extending between said side boards and having trunnions at its ends resting in said bearing notches, a seat board whose rear end rests substantially throughout its width on said eccentric, an elongated bearing secured to the lower side of said seat board at its front end and extending substantially throughout the width of said seat board, said elongated bearing being positioned between said upstanding bearings, a rod passing through these bearings, and means associated with one of said trunnions for holding the eccentric in adjusted position.

In testimony whereof I have hereunto set my hand.

NIELS HANSEN.