

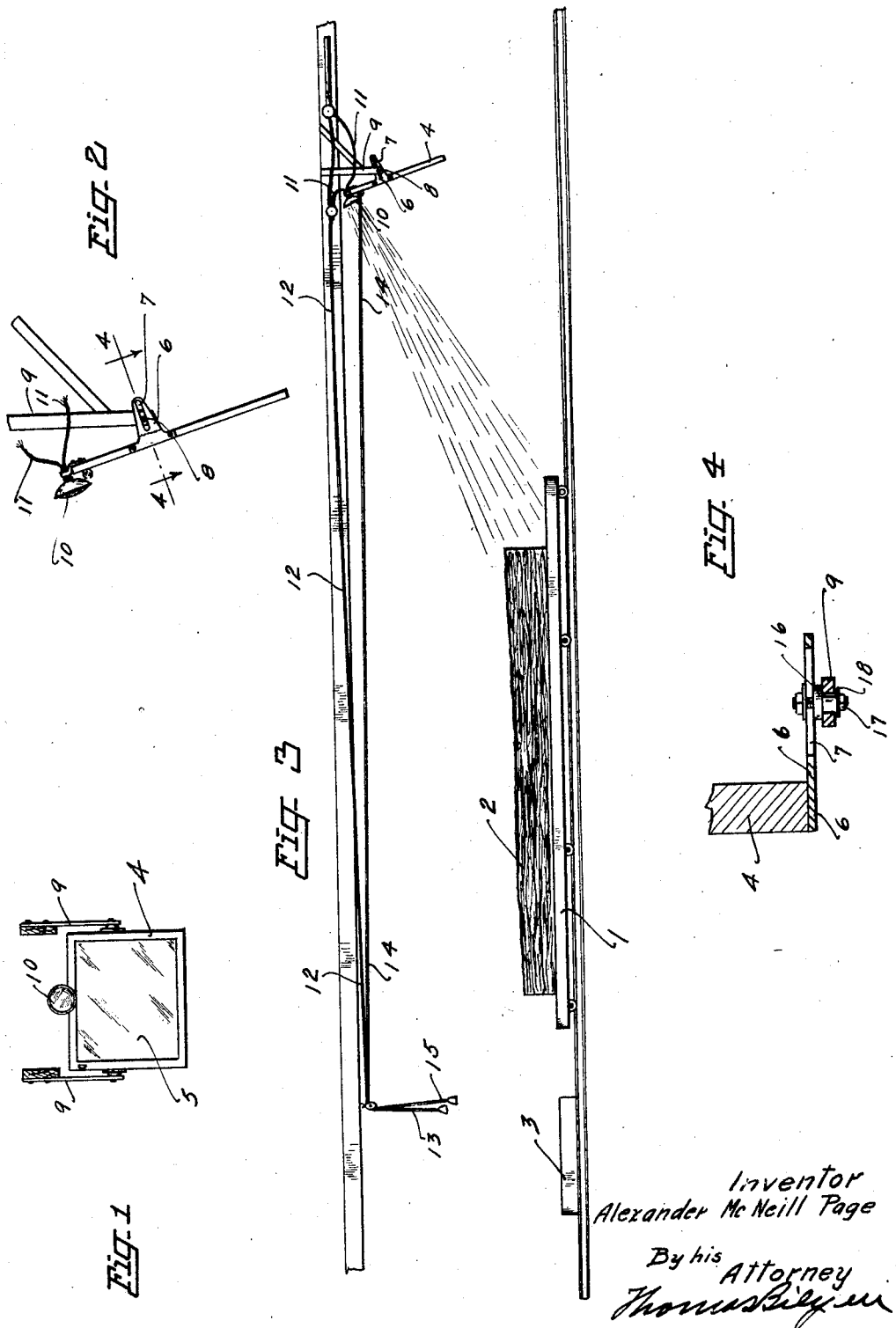
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SAWYER'S LOG MIRROR

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SAWYER'S LOG MIRROR.

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My invention relates to a hand manipulated mirror having attached thereto a light reflector adapted for use in saw mills and kindred places. This mirror is intended to reflect the end of the log opposite the sawyer, in order that the sawyer may know the condition of the end of the log, before starting to saw the same. Devices of this kind are particularly desirable where a log of large diameter is to be sawn, and where a log of great length as well as large diameter is to be sawn. An adjustable mirror is required, in order to reflect the condition of the end of the log to the sawyer. The sawyer is located in a fixed position, at his post of duty.

An object of my invention consists in a frame support for the mirror and a means of manipulating the same.

A further object of my invention is to so support the mirror, that it will have a tendency to hang or adjust itself into one primary position; and if other positions are required, to manipulate the mirror by hand manipulation and to maintain the same in desired position by a system of cords or overhead tension members running over pulleys for that purpose.

Another object of my invention consists in providing a means of connecting and connecting the light projector, supported upon the mirror frame, so that it will bear a fixed relationship to that of the mirror.

A further object of my invention consists in so placing the mirror that it will reflect to the sawyer the condition of the end of the log, whether the same be of long or short length, without stopping the carriage upon which the log is supported, at any particular location within the range of the mirror.

With these and other objects in view, the invention consists in certain novel features of construction and combination of parts, the essential elements of which are set forth in the appended claim and to a preferred form of embodiment which is hereinafter described, and shown in the drawings which accompany and form a part of this specification.

In the drawings—

Fig. 1 is a front assembled view of the device shown in position and mounted within the frame support.

Fig. 2 is a side elevation of the mechanism shown in Fig. 1, but upon a larger scale.

Fig. 3 is a cross-section view through the mill illustrating the log carriage, the log

upon the carriage, a platform upon which the sawyer stands and a preferred embodiment of my device shown in position upon the frame support adapted to reflect the condition of the end of the log structure to the sawyer upon the platform at the opposite end of the log carriage, and the manipulating cords for turning on and off the illuminating substance to be used in the projector, such as an electric light, and a cord for manipulating the position of the mirror about its pivotal supports.

Fig. 4 is a fragmentary, sectional view of the bracket support and the pivotal members adapted to support the mirror in position.

Like reference characters refer to like parts throughout the several views.

1 is the log carriage, 2 is the log in position upon the same, 3 is the platform upon which the sawyer stands in directing the sawing operation of the log, 4 is the mirror frame having disposed therein a mirror 5.

The mirror for work of this kind should be substantial in construction, as of plate glass, and of large area in order that the same may be easily seen under the conditions for which it is intended that the same is to be used, and should be so arranged, in the mill, that the reflecting surface of the same may be easily accessible for keeping the surface in a highly polished condition in order that it may reflect to the sawyer true, exact and accurate conditions of the log end, opposite to which the sawyer stands while directing the operations of sawing the log; mirror brackets 6, are located at either side of the mirror frame and somewhat above the center of gravity thereof, having slots 7 therein, and pivotally mounted as shown at 8 to the bracket support 9. Since the mirror is to be made of substantial area and of substantial weight, these supporting members should be of substantial proportion to adequately maintain the same in position and alignment. The central pivotal support should be somewhat above the center of gravity of the mirror in order that the same will have a tendency to hang in a position approximating that of the vertical position. Disposed upon the one central edge of the mirror is an electric light and a reflector 10, having circuits 11 adapted to conduct electric energy therein for illuminating the same.

Under certain sawing conditions it may not be desirable to use this light. I have, therefore, provided a cord 12, having its one

end connected to a suitable electric switch for turning on and off the electric energy required in illuminating the projector and having its opposite end 13, disposed at a convenient location for the operation of the same by the sawyer. I have a second cord 14, disposed upon one edge of the mirror frame and having its opposite end terminating at 15, and in convenient location for manipulation of the same by the sawyer; the reason for the required adjustment of the mirror is to compensate for the different lengths of logs being sawn, as it is apparent that the angle at which the reflecting mirror will be required to stand, will depend upon the location of the end of the log to be inspected by the sawyer, and it is highly desirable that the travel of the log carriage should be sufficient only to allow for the clearance of the saw before the log is set out for the next sawing operation and that the mirror should be located a sufficient distance away from the sawyer to reflect the condition of the longest log to be sawn.

25 The pivotal support 16, for the mirror frame, should have its one end supported in the support bracket 9, and its other end should pass through the slot 7 of bracket 6,

and has the threaded nut 17, disposed upon its other end to maintain the collar 18, in working relationship with the bracket support in order that a true working fit may be secured between the supporting members and the mirror.

While the form of mechanism herein shown and described is admirably adapted to fulfill the objects primarily stated, it is to be understood that it is not intended to confine the invention to the one form of embodiment herein shown and described, as it is susceptible of embodiment in various forms coming within the scope of the following claim.

What I claim is:—

In a sawyer's log inspecting device, a mirror, a frame therefor, slotted brackets fixed above the center of gravity of said frame projecting rearwardly from opposite sides thereof, supporting means pivotally engaging said slotted brackets, and means associated with the frame and operable from a point remote from the mirror for tilting the mirror and maintaining it at the desired angle.

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