A receiving table for a guillotine comprising a substantially horizontal supporting platform mounted on a frame by a plurality of links so that when loaded the platform will move downwardly to a position inclined towards the rear, locking links connecting said platform and frame and capable of locking the platform in said substantially horizontal position resilient means tending to hold said locking links in their locked position and means actuated by the guillotine to disengage said locking means.

4 Claims, 2 Drawing Figures
RECEIVING TABLE FOR A GUILLOTINE

THIS INVENTION relates to a receiving table for a guillotine.

When a guillotine is used for cutting metal plate and particularly plate of the order of ½ inch to 1 inch in thickness it is difficult to support the portion to be cut off at the rear of the guillotine. The object of the invention is to provide a receiving table which will support the material being cut.

In one form the invention resides in a receiving table for a guillotine comprising a substantially horizontal supporting platform mounted on a frame by a plurality of links so that when loaded the platform will move downwardly to a position inclined towards the rear, lacking links connecting said platform and frame and capable of locking the platform in said substantially horizontal position resilient means tending to hold said locking links in their locked position; and means actuating the guillotine to disengage said locking means.

The invention will be better understood by reference to the following description of the specific embodiment shown in the accompanying drawings wherein

FIG. 1 is a side elevation; and
FIG. 2 is a plan view.

In the embodiment shown in the drawings the supporting platform comprises a substantially rectangular frame 11 formed from angle iron or other suitable material having a series of spaced idler rollers 12 mounted thereon. The supporting platform is mounted on a substantially rectangular frame 13 provided with downwardly projecting feet 14 at each corner. The platform is supported at each side by a pair of links 15, the links 15 are so dimensioned that the platform can move between a substantially horizontal elevated position to a lowered position in which it is inclined from the front to the rear, the front being that portion of the unit located adjacent the guillotine, that is, on the right hand side of the drawing shown in FIG. 1.

An articulated locking link 16 is provided at each side between the platform and the frame so that when the platform is in the elevated horizontal position the link hinge is over center and locks the platform in position. A coiled spring 17 is provided to bias the articulated link to the locking position. The upper end of each articulated link 16 is coupled to a shaft 18 rotatably mounted on the platform. The upper end of the shaft projects beyond one side of the platform and is fitted with a radially projecting arm 19, the outer end of which is fitted with an adjustable post 20, the upper end of which is located so that as the blade of the guillotine descends it bears against the upper end of the post to rotate the shaft 18 which causes the articulated link 16 to move back from its overcentre position and allow the platform to lower.

Preferably the lower end of each rear platform supporting link is provided with an extension 21, the end of which is coupled to the free end of a piston rod 22 of a hydraulic jack 23. The cylinder of the jack is connected through suitable lines (not shown) to a hydraulic fluid tank 24 the upper portion of which is filled with air under pressure.

In use the table is placed at the rear of the guillotine so that the portion of the plate projecting to the rear of the guillotine is supported thereon and the post 20 located so that as the blade of the guillotine nears the end of its stroke the blade or some element connected thereto bears against the upper end of the post 20. The platform is held in the elevated position by the articulated locking links 18. As the blade nears the end of its stroke the post 20 moves downwardly to rotate the shaft 16 to disengage the locking links and allow the platform to lower to its inclined position. The lowering of the platform is dampened by the hydraulic cylinders 23 which also act as shock absorbers should the cut portion drop onto the lowered platform. The cut off portion runs downwardly over the rollers 12 and when it is clear of the platform the air pressure in the tank 24 returns the platform to the elevated position.

I claim:

1. A receiving table for a guillotine comprising a workpiece supporting platform, a frame, a plurality of links pivotally connected to said platform and said frame and arranged so that when loaded, said platform will move downwardly to a position inclined towards the rear thereof, means for locking said platform in a substantially horizontal position, said locking means comprising a pair of articulated locking links pivotally connected to said supporting platform and said frame, a coil spring connected to said locking links and capable of normally holding said locking links in their locked position and an actuating means capable of moving said locking links from their locked position and positioned for being actuated by the motion of the guillotine blade.

2. A receiving table as claimed in claim 1 wherein said supporting platform comprises a substantially rectangular frame and a series of spaced idler rollers mounted on said supporting platform.

3. A receiving table as claimed in claim 1 wherein said actuating means comprises a shaft rotatably mounted on said supporting platform and coupled to said locking links, one end of said shaft projecting beyond said supporting platform, an arm on said shaft projecting radially thereof, a post adjustably mounted on said arm with an end of said post positioned for being actuated by the blade of the guillotine as it descends.

4. A receiving table as claimed in claim 1 including at least one hydraulic ram coupled to said supporting platform, means for supplying media under pressure to said ram whereby said ram can provide a biasing force to maintain said supporting platform in a substantially horizontal position.