and it is only by moving the bearings of this cross shaft back on the guide bars just mentioned that the saw is allowed to advance under the influence of the pressure applied by the plank or lever already referred to.

The manner in which the bearings of the cross shaft, B, which gears into a bevel pinion, P, fixed at the lower end of the vertical shaft, U. This shaft, which is $\frac{1}{2}$ in. in diameter, extends up to above the beam, B, and it is provided at its upper end with the small hand wheel, X, as shown. It will be understood from the particulars we have given, that by simply turning this wheel by hand, the cross bar, Q, can be allowed to recede on its guides at any speed at which it desired that the saw should cut.