

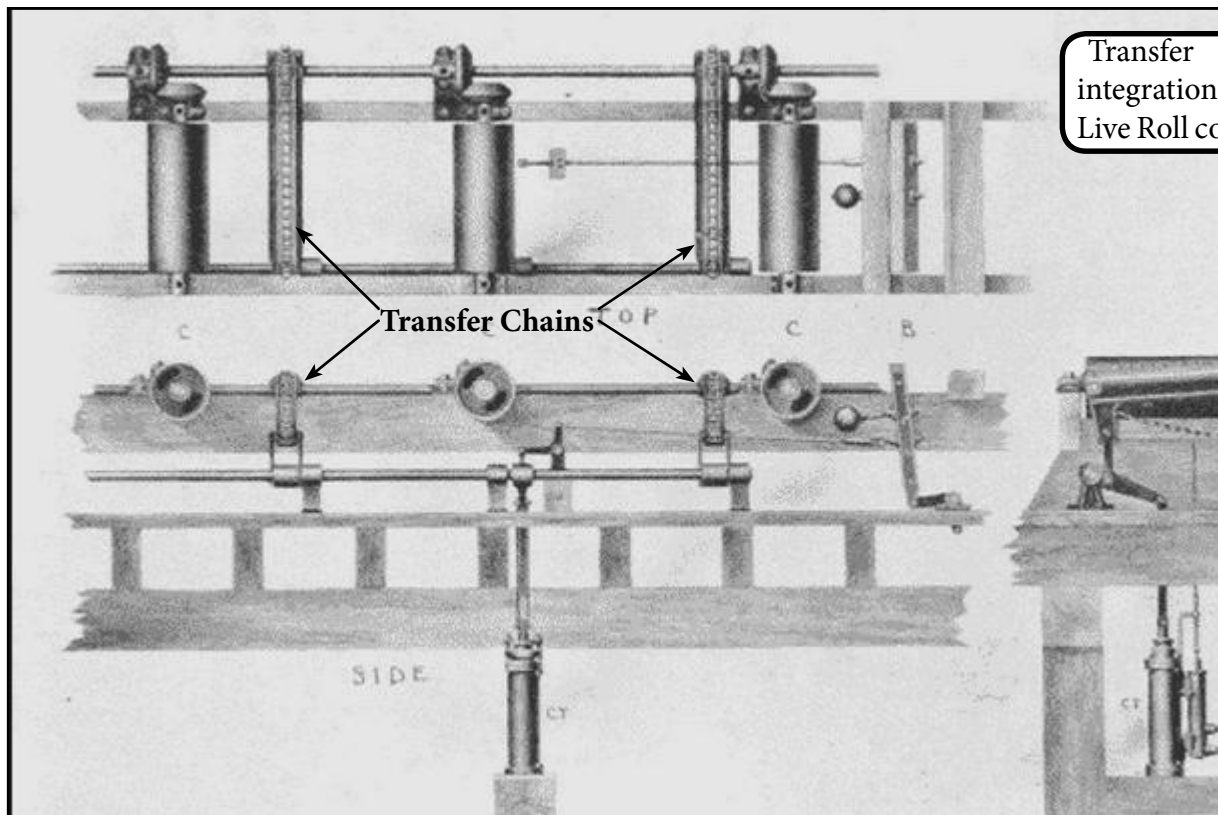
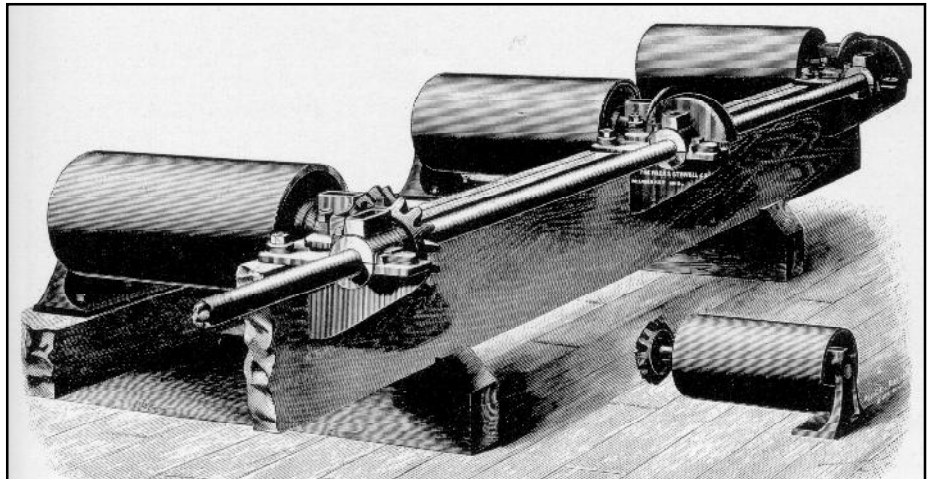
Screw Roll

Lumber Handling & Transfer Equipment

We have discussed the various pieces of machinery within the Sawmill, but have made little mention of how the boards were conveyed from one location to another. The lumber handling and transfer equipment in a Sawmill consists of rollers, “Dead” (un-powered), “Live” (power driven), Screw, and High Speed, which are used to move lumber from the front to the tail end patterns of the mill, plus chains of various designs that move lumber, slabs, and edging throughout a Sawmill. The speed of the rollers closest to the Head Saw were the fastest, with the speed decreasing as the distance increased through the mill.

H&I Live Rolls

Live rolls are used to carry lumber, cants, timbers, and slabs from the Band Mill to the tail of the mill. They were driven by miter gears and a drive shaft placed parallel to the direction of travel. A reversible feature was necessary because pieces may be carried further along the rolls than desired, or a board or slab may be caught, so by reversing the direction of travel the pieces were backed up and started again.



Transfer Chains integration with a Live Roll conveyor.

J Transfer Chains

Transfer Chains were placed at right angles to Live Rolls to move lumber, cants, timbers, or slabs in a cross-wise direction. When a board is directly over the endless chains, it is raised above the Live Rolls by elevating the end of the Transfer Chain. The board or slab is then carried rapidly in a transverse direction and drops on another Transfer Chain which spans the gap between another Live Roller conveyor.