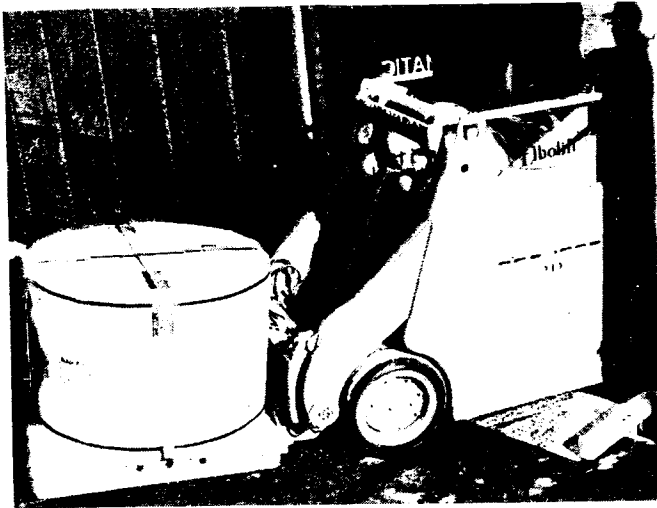


No mast on this lift truck

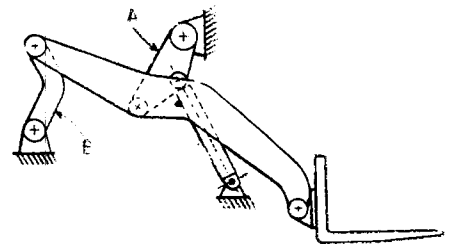
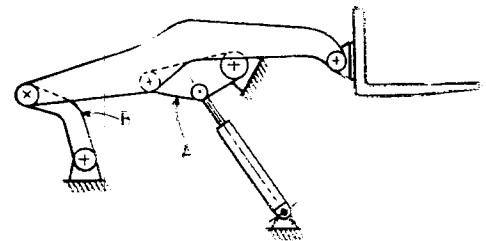
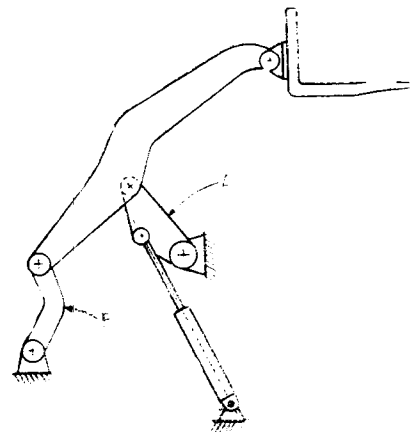


... Yet the load moves straight up instead of swinging through an arc. It's done with compensating links that shift the pivots as load arm is raised.

Coils are strapped . . .

to 52-in.-sq pallets that are loaded in boxcars. Truck had to be designed to enter the 8 x 8-ft boxcar door, pick up pallets as near as 1 ft, 7 in. to the doors and maneuver inside the car's 9-ft, 2-in. width. Coils weigh 15,000 lb each and are stacked three-high when unloaded. Stacking required lifting forks to tilt from 10° back to 5° forward and have an 8-in. side-shifting motion, for stack alignment. Maneuverability was obtained with rear-wheel steering.

Straight-line lifting action is result of adding links A and B to the lifting mechanism. The load arm is raised by link A which arcs rearward as the hydraulic cylinder pushes it upward. Relative lengths of links A and E and the load arm let this action counteract the forward arcing motion of the swinging load arm. Load actually moves to rear as it is lifted.



Designed by Automatic Transportation Co.