on the wheels $e$, as the bridge will move much more easily with the bearing upon the centre pivot, than up on the truck wheels.

The king posts should be placed over the centres of trucks, or, when this can not be done, they should bear upon transverse beams which bear upon centres of trucks. In all cases, the bearing upon trucks should be through the medium of bolster plates so formed upon the under side as to touch the truck frame only upon a space an inch wide or less, square across the centre, as indicated by the parallel lines across the trucks in the large diagram of the Figure 74. Were the pressure applied in a line diagonally across the truck, it would act unequally upon the journals, and produce a torsion strain upon the truck frame, which the latter might not be able to bear.

Particular care should be taken to provide convenient means for keeping the working parts thoroughly oiled.

The superstructure being properly adjusted and balanced upon this turn-table, and the set screws $s$, forced down until all the truck wheels can be easily made to slide upon the rail by the use of a light crow bar, the structure will turn upon its centre pivot, steadied by contact of truck wheels upon the rail, with the least practicable resistance, and, during the transit of moving loads, the wheels, being in contact with the rail, are in readiness to sustain the additional weight without increase of pressure upon the pivot, or increased strain upon the diagonal trusses.

The modes and means for the application of power in working this table, as well as the preceding one, have already been described, [CLXXIX], and the description need not be repeated. They need no illustration by diagram, and are not shown in the drawings.