

DRIVING AXLES.—Axles 7" diameter, journals 8" long and 3 : 11" centres. Collars forged on, to be of best hammered scrap iron, approved make, perfectly sound and truly turned; axle and sponge boxes of cast iron. Bearings to be of hard brass 1" thick, turned outside and tightly driven into slotted axle boxes.

SPRING GEAR.—Compensating beam of best hammered scrap iron with steel bearings, this beam is to go between drivers on top of frame; the centre pedestal being well bolted to frame. Springs are to be of Krupp's best spring steel or equal and approved quality, with 12 plates $\frac{3}{8}$ " thick x $3\frac{1}{2}$ " wide and 3 : 1" centres; spring links to be of wrought iron; and all keys or cotters to be of steel. Spring seat on top of axle box is to be of cast iron, see drawing No. 1201.

TRUCK.—Side frames $3\frac{3}{4}$ " x $1\frac{7}{8}$ " and $3\frac{1}{2}$ " x $1\frac{1}{4}$ " with the compensating beams $4\frac{1}{2}$ " x 1" of wrought iron. Fixed saddle and jaws of cast iron strongly bolted to wrought iron side frame (see drawing 1109). Solid plate wheels 28" diameter for freight, and 30" diameter for passenger, deeply chilled on rim and tightly pressed on to axle. Two springs of Krupp's best steel, or equal and approved quality, each having 17 plates $3\frac{1}{2}$ " x $\frac{3}{8}$ " x 2 : 11" centres. Axles of best hammered scrap approved make, inside bearing journals 3 : $8\frac{1}{2}$ " centres: 7" long x $4\frac{1}{2}$ " diameter. Wheel seat $4\frac{1}{2}$ " diameter, diameter at centre $4\frac{1}{4}$ ". Axle and sponge box of cast iron; bearings of brass $1\frac{1}{8}$ " thick, carefully hand-fitted into box. The centre casting is secured to truck saddle by a wrought iron king pin 5" diameter and a large split cotter.

CAB, PILOT, &c., &c.—Cab to be of well seasoned ash or walnut, as per drawing No. 1126, with 2 sliding windows in front and 2 on each side and 2 in back board of thick plate glass, also 2 doors in front. The whole to be strongly built and firmly secured to fire box and foot board by suitable bent angle irons, plate and stays, also to be secured to cast iron bracket, bolted on each.