(B.)—MEDICAL TRANSPORT CART.

REQUISITES.

1st. To be large enough to carry three (3) boxes for stores, each 18 inches wide, 36 inches long, and 18 inches high.

2nd. The weight of the finished cart, with wheels and empty boxes, must not exceed 600 lbs., and have strength of frame sufficient to withstand a load of 800 lbs.

3rd. The cart-wheels must be interchangeable with the hind wheels of the new ambulance wagon.

SPECIFICATIONS.

WHEELS.—The wheels will be 4 feet 2 inches high (without tires), the hubs (of best elm) 6½ inches in diameter at centre, 5½ inches at butt, and 4½ inches at the point, by 9 inches in length ; butt with iron bands on each end mortised for sixteen (16) spokes. Size of mortise 1⅝ inches by 9-16 inch with a ⅞ inch disk. Spokes (best seasoned hickory) 1½ inches by ⅝ inch (hub tenon) felloe tenon, round ¾ inch in diameter ; felloes (best hickory) 1⅝ inches, two (2) pieces for each wheel ; tire (best charcoal iron) 1½ inches wide, by ⅜ inch thick, fastened on with eight (8) tire-bolts in each wheel ; two (2) felloe-plates in each wheel over joints.

AXLE.—Of best quality refined iron 1½ inch square for 7 inches from each collar-washer, the remainder rounded. Collar-washer 2⅝ inches in diameter, ⅜ inch thick ; wheel-boxes of best quality foundry iron, 7½ inches long, 1½ inches in diameter, 7-16 inch thick at butt ; 1⅜ inches in diameter, and 5-16 inch thick at point, with two (2) lugs, 2 inches long, ½ inch high. Oil-chamber, 2 inches long, 1-16 inch deep, to commence 2½ inches from the butt. Weight of box, not less than 4¾ lbs. each. Axle to be arranged to track five feet from centre to centre of wheels.

BODY.—Outside length 57½ inches, width 40¼ inches, height 8 inches. Inside length 54⅝ inches, width 38 inches, height 6 inches. Frame, of oak, consisting of two (2) exterior side-sills and two (2) end cross-bars, size 1¼ by 2½ inches. Centre cross-bar 2 inches by ¾ inch, and two (2) interior cross-bars, at half distance between the centre and the ends, 2 inches by ¾ inch ; all cross-bars, except the tail-bar, are mortised into the side-sills, and are even with them at bottom ; the tail-bar is mortised to received the sill-tenons. The tenons of the end bars are of one-third thickness ; those of the interior bars are of half the thickness. The floor planks will be ash, ½ inch thick, and level with the top of the side-sills. The upper rails are 1⅛ inches by 1 inch, and extend over the sides and front, and are vertical. The side panels of the body are of ash, screwed, each side, to six (6) single studs and to a front double corner stud ; the front panel of the body, also of ash, ½ inch thick, is screwed in like manner, to three (3) single studs and the double corner studs, to which the sides are attached. These studs are all tenoned into the side sills and upper rails. The studs are 5 inches long ; the single ones ¾ inch by 1 inch, and chamfered at their exterior corners between the sill and upper rail. The double corner studs are made from square pieces 1⅞ by 1½ inches. The sides and front of the body are stayed by upright rods and flat angle-irons about the front corners and the sides, also by upright and brace-rods at the rear. The ends of the rear cross-bar and the centre-bar project 4½ inches beyond each side to receive lower ends of these braces. The tail-board is framed of ⅜ inch (panel) boards of ash, screwed to five (5) studs ¾ by 1 inch, mortised into a top and bottom rail 1 inch by 1⅛ inches. The length of tail-board extends even with the exterior of the sides. The tail-board will be hung to the rear cross-bar by three light hinges to stand even with the end of bar when upright, and will be held closed by means of hooks attached to the sides, and hooking into eyes attached to the irons on the upper rail of the tail-board.

SPRINGS.—Two (2) side half-springs, perpendicular to the axle, and clipped beneath it, connected in front by a cross-spring. The side springs are to be 48