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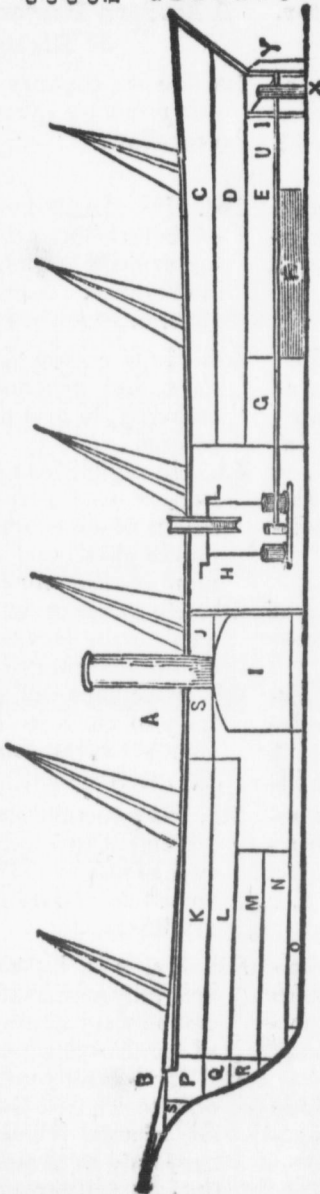
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OUTLINE AND SKETCH OF THE GREAT IRON STEAM SHIP "GREAT BRITAIN."

This immense vessel, made of iron, and propelled by the Archimedean screw in the stern, instead of wheels at the side, left Liverpool at 4 p.m. on the 26th July last, and arrived at New York, thus making the passage of the Atlantic in less than 15 days, by a means entirely new. The vessel is constructed of plates of iron, varying from $\frac{3}{4}$ to 1 inch in thickness, has four decks and six masts, is of a beautiful mould, and although larger than any first-rate man-of-war, being 320 feet long by 50 feet wide, is yet managed with the greatest ease. The following section of the ship, and details of her construction, furnishings, and machinery, cannot fail to be interesting:—

The Archimedean screw propeller, attached to the Great Britain, is composed of "six arms, or blades, 15 ft. 6 inches diameter, 25 ft. pitch, and weighs four tons."



The main drum is 18 ft. diameter, and drives four chains, weighing 7 tons.

The screw shaft drum is 6 feet diameter, and the weight, with the pull, when working, is equal to 85 tons on bearings of main shaft.

V. Diagonal stay from ship's side to stern-post

W Side view of screw stern-post, in which the end of the screw spindle revolves.

X. Keel under the screw, uniting the stern-post to the vessel.

Y. Hollow rudder foot, and of such thickness as to receive stern-post, which forms its pivot.

POWER. &c.

Power, two engines, each 500 horse power..... 1000 horse

Boiler, (square) 34 ft. by 22 in height

Furnaces, 24---12 forward & 12 aft.

Stroke of piston..... 6 feet

Displacement of water when drawing about 16 ft. (or loaded) about 3000 tons

Stowage for coal..... 1100 "

" goods additional about... 1200 "

DIMENSIONS, &c.

Length of Keel..... 229 feet

" from figure head to taffrail 325 "

Extreme width..... 51 "

Depth of hold from upper deck 32 $\frac{1}{2}$ "

Rurthen, old measure, about 3443 tons

Will accommodate about..... 360 passengers

And dining accommodations for.. 380 "

Crew and firemen..... 350 persons

A. B. Surface line of upper deck.

C. Principal promenade saloon; length, 100 feet by 48 feet at the widest part; height, seven feet; 24 berths on each side.

D. First class saloon, or dining room; length 800 feet; greatest width, 50 ft.; height, 8 feet.

E. The cargo deck, 65 ft. long, by 9 feet high.

F. An iron fresh water tank; length, 40 feet.

G. A room for a coal store, &c.

H. Elevation of engines. I. Ditto of boiler.

J.J. Iron deck over boiler, cooking apparatus.

K. Fore, or second class saloon, 84 feet long, 7 feet 9 inches high.

L. Lower fore saloon, length and height as above; 40 bed places on each side of saloons.

M and N. Iron floored cargo decks.

O. Air chamber from boiler to fore bulkhead, of the shape of the ship.

P. Officers' berths &c.

Q. Sailors' mess-room.

R. Sailors' berths; 7 small water tank.

S. Water closets.

T. Ship's stern post, thro' which screw passes

W. Shaft from engine to screw.