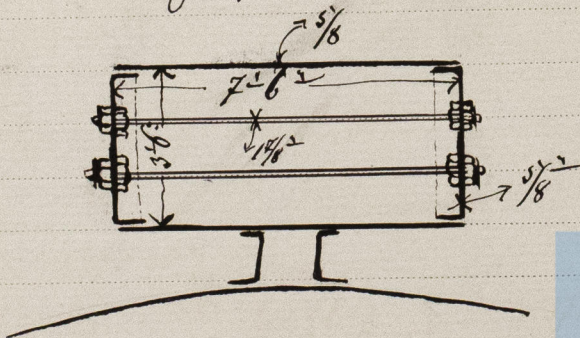


17485, Iron. *Rev 7/2/76*
 Port Hull. November 14th 1876
 "Vine" 460 tons

Details of Main Boilers of the Steam Ship

Diameter $13' 0''$ Length $9' 4''$
 Thickness of shell plates $\frac{3}{8}''$
 Description of riveting of longitudinal joints *Double butt straps* of circumferential joints *Lap*
 Pitch of rivets ditto $3\frac{1}{4}''$ ditto $3''$
 Diameter of rivets ditto $1''$ ditto $1''$
 Lap of plating ditto ditto $5''$
 No. Size of manholes in circular shell $13'' \times 18''$
 How compensated for *By ring $\frac{3}{4}'' \times 7''$*
 Number of furnaces in boiler 2
 Diameter of furnaces $2' 6''$ Length of furnaces $8' 9''$
 Thickness of furnace plates $\frac{7}{16}''$
 Description of joint of furnaces *Welded*
 Whether strengthened with rings *Yes* Greatest length between rings $5' 10''$
 Thickness of combustion chamber plating $\frac{7}{16}''$
 Diameter of screw stays to ditto $1\frac{1}{2}''$ pitch of stays $9'' \times 9''$
 End plates, thickness $\frac{5}{8}''$
 Diameter of longitudinal stays to end plates $2''$ pitch of ditto $15\frac{1}{2}'' \times 15''$
 How stays are secured *By double nuts and washers*
 Diameter of tubes $3\frac{1}{2}''$ pitch of tubes $4\frac{1}{2}'' \times 4\frac{1}{2}''$
 Thickness of tube plates $\frac{5}{8}''$
 Stayed by *Screw tubes* pitch of stays $4\frac{1}{2}'' \times 17''$
 Description of steam receiver *Horizontal, cylindrical*
 Diameter of ditto $3' 6''$ length of ditto $7' 6''$
 Thickness of plating of ditto $\frac{5}{8}''$ ends $\frac{5}{8}''$
 Ends, how stayed *By four solid stays; $1\frac{1}{8}''$ diam. $14'' \times 14''$ pitch.*



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A. Keydell