

A. S. HALLIDIE.

JOSEPH TUTTLE.

A. S. HALLIDIE & CO.

Importers, Dealers and Manufacturers of

**IRON AND STEEL WIRE ROPE,
AND WIRE OF ALL KINDS.**

ESTABLISHED, 1857.

**Office and Depot, 519 Front Street,
MANUFACTURING WORKS, NORTH BEACH,
SAN FRANCISCO, - - CALIFORNIA.**

Sole Agency of R. S. NEWHALL & CO., Gateshead, on Tyne,

AND FOR THE
MORGAN PATENT PLUMBAGO CRUCIBLES.**MINING COMPANIES, FERRYMEN & SHIPMASTERS**

Are informed that Wire Rope can be furnished them, considerably under the cost of Hemp or Manila Rope, of equal strength.

WIRE ROPE does not stretch or shrink by the change of weather. It weighs 40 per cent. less than Hemp; is less than one-half the diameter; it is as easily spliced under all circumstances; is as pliable for equal strength, and is from three to five times as durable as the best of Hemp or Manila Rope.

It is almost exclusively used throughout the principal mining regions, and by the leading shipowners; and thirty years experience has tested its merits and proven its great economy and superiority over any other kind of Rope.

We have entirely remodeled our Manufactory with new and improved machinery, and by the careful selection of the best material, the Wire Ropes turned out from our establishment we guarantee to be equal to any made.

Round Iron Wire Rope, $\frac{1}{2}$ to $1\frac{3}{4}$ inches diameter; Flat Iron Wire Rope, $2\frac{1}{4} \times \frac{3}{8}$ to 5×1 inch, for hoisting from Inclines and Shafts.Round Steel Wire Rope, $\frac{3}{8}$ to 1 inch diameter, for Derrick Fall Ropes and Hoisting purposes.Flat Steel Wire Rope, $2\frac{1}{4} \times \frac{1}{4}$ to $3\frac{1}{2} \times \frac{5}{8}$, for hoisting from Deep Shafts.Ungalvanized or Galvanized Round Wire Rope, $\frac{1}{2}$ to $2\frac{1}{2}$ inches diameter, for SHIPS' RIGGING, DERRICK GUYS, BUOY and FLYING FERRY ROPES.Ungalvanized and Galvanized Iron and Copper Wire Cord, $\frac{1}{16}$ to $\frac{3}{8}$ inch diameter, for Hanging Window Shades, Dumb Waiters, Signals, etc. Suitable Sash Pulleys furnished with Sash Cord.Galvanized Iron Wire Strand, $\frac{1}{4}$ to $\frac{3}{8}$ inch diameter, for Fencing in Lands, etc.

NOTE.—Steel Wire Rope weighs about 60 per cent. of Iron Wire Rope, or 35 per cent. of Manila, of equal strength. It is admirably adapted for Fall Ropes for Derricks, with suitable Sheaves, and for hoisting purposes, where there is much rough work. Its extreme lightness effects quite a saving in freight to remote points, Manila or Hemp, of equal strength, weighing three times its weight. See comparative weight, strength and sizes of

Steel Wire Rope.		Iron Wire Rope.		Hemp Rope.		Working Load of Each.
Circumference.	Wt. of 100 Ft.	Circumference.	Wt. of 100 Ft.	Circumference.	Wt. of 100 Ft.	
2	55	2 1-2	88	6	130	3,700 lbs. 5,000 "
2 3-8	83	3	139	7 1-4	185	

A full scale of weights and strength, with prices, can be obtained from any of our Agents, or by sending to the manufacturers, who will forward the same by return mail.

WIRE SUSPENSION BRIDGES.

We are prepared to contract for the erection of Suspension Bridges and Aqueducts, guaranteeing our work, and can refer to the many Bridges erected under the superintendence of A. S. Hallidie, C. E., during the last seven years on this Coast, of spans from 200 to 400 feet. Material for Wire Suspension Bridge construction furnished low. Wire of all kinds constantly on hand.