

A. S. HALLIDIE.

H. T. GRAVES.

**A. S. HALLIDIE & CO.****PATENT****Wire Rope Manufacturers**

[Established 1857.]

Works, North Beach,

Office, 412 Clay St.

SAN FRANCISCO.

Are constantly manufacturing every length and size of

**Round Iron Wire Rope****Flat Iron Wire Rope****Round Steel Wire Rope****Flat Steel Wire Rope****Galvanized Iron Wire  
Rope****Copper Wire Sash Cord****Iron Wire Sash Cord****Copper Wire Rope Lighten-  
ing Conductors****Wire Fencing Strand,  
galvanized and ungalvanized**

Have on Hand, and offer for sale, Iron, Steel, Brass, Copper and Galvanized Wire of all sizes and qualities.

For information in detail, see following pages (69, 70, 71), and send for **THE MECHANICAL MINERS' GUIDE**, which we forward free by mail to all parts of the Pacific Coast.

Iron Wire Rope is now generally employed for Mining, Ferry, Shipping, and general purposes; and thirty years' experience has proved that it possesses many great advantages over Hempen Ropes,—being lighter, stronger, and more durable, and cheaper than Hemp, and is not effected by atmospheric changes.

The many purposes to which Wire Rope has been applied where Hemp Rope would soon have been destroyed, and chain found too heavy, soon induced its general adoption throughout the mining regions of the world; but in no place is it used more extensively than in the coal and iron districts of Pennsylvania and Great Britain, where shafts and incline planes are sunk to an immense depth, and the universal preference given to it over other ropes and chain, is a sufficient guarantee of its superiority. In California, the consumption of rope for mining purposes is enormous. Until the erection of our Works, Wire Rope had not been in the market, although the requirements of the mining and shipping interests have long since demanded it. The demand we are now able to supply, by the erection of suitable machinery, and by the steady importation of the raw material necessary for its successful manufacture.

It is almost impossible to specify the precise uses to which Wire Rope is adapted in preference to hempen ropes or chain; but for the following purposes it has been a long time in use, and in every respect is much preferred:

For Hoisting from Deep Shafts and In-  
cline Planes;  
For Guy Ropes for Derricks;  
For Pump Ropes for Driving River  
Machinery;  
For Suspension Cables for Water Con-  
duits or Aqueducts;  
For Signal Cord;  
For Ferry Ropes;

For Ships' Standing Rigging;  
For Tiller Ropes for Steamers;  
For Guy Ropes for Smoke Stacks;  
For Power Ropes, for Conveying Power  
to any Distance.  
For Sash Cord for Window Sashes, Hang-  
ing Pictures, Etc.;