


UNION GAS OR OIL ENGINE & HOIST COMBINED—On Strong Iron Base.
6 to 50 h.p. of design shown in cut.

UNION HOIST

NO FIRE! NO STEAM! NO BOILER! NO DANGER!

Particularly adapted to Mining and
Ship Wharf use. . . .

Started instantly. Compact, strong, simple, efficient,
economical. Perfectly governed, so that oil is
used only in proportion to the work done.
.....No expense when idle.....

Ten years' experience.  About 2,000 engines in use.
Send for Catalogue, and state h.p. required.

UNION GAS ENGINE CO.

315 Howard Street,

SAN FRANCISCO, - - - CAL.

THE CALIFORNIA

THE CELEBRATED

HAMMERED STEEL SHOES AND DIES

Warranted not to clip off or batter up. A HOME PRODUCTION.

Best Refined Cast Tool Steel, Well Bit Steel, Heavy and Light Iron and Steel Forgings of all Descriptions.
218 & 220 Folson St. **GEO. W. PENNINGTON & SONS,** San Francisco, Cal.

Mines and Mining.

CORRESPONDENCE SOLICITED

R. GRAHAM & CO.,

717 FIRST AVE., SPOKANE.

WE MAKE A SPECIALTY OF TRAIL CREEK MINES AND STOCK.

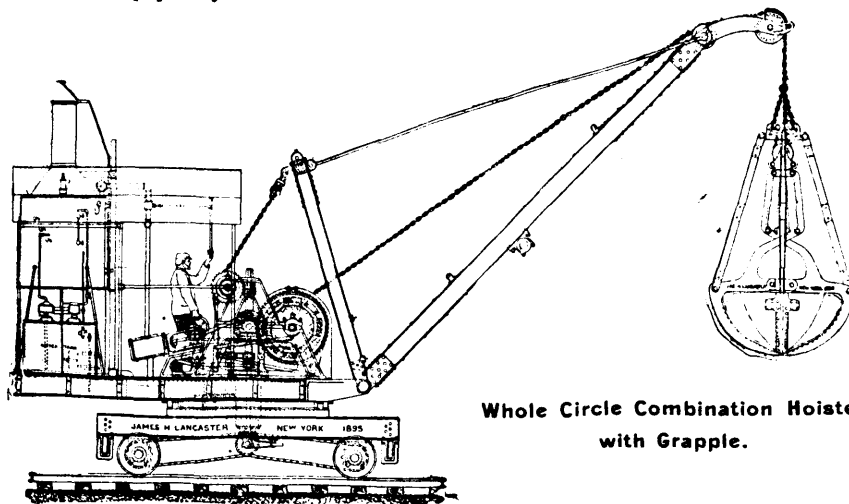
THE LANCASTER COMBINATION HOISTER

Works Grapple, Steam Shovel, Pile Driver and Crane.

FOUR MACHINES
IN ONE.

EACH COMPLETE
AND
SUPERIOR.

CONVERTIBLE TO
EITHER IN
THIRTY MINUTES.



Whole Circle Combination Hoister
with Grapple.

LARGE CAPACITY,
ECONOMICAL
AND DURABLE.

INDISPENSABLE
TO EVERY CONTRACTOR AND
MINER FOR LAND
AND OFF-SHORE
WORK.

PLACER GOLD AMALGAMATORS, Duplex and Alternating Riffles and Amalgamators, Mining Dredges, Washers and
Screens, Steam Shovels, Pumps, Clam Shell Buckets, Grapples, Coal and Ore Handling Plants, Rock AND ORE
BREAKERS, Granulators, Combined Crusher, Screens and Rolls (superseding Stamp Mills). Special plants of
all kinds, capacities and powers designed and promptly built.
Catalogues, prices and testimonials on application.

P.O. Box 2,366.

JAMES H. LANCASTER.

123 LIBERTY STREET, NEW YORK.