Contractor's and Quarrymen's Sketch Book.

SANDSTONES,
GRANITES
AND MARBLES.

E. A. NORCROSS.
O. W. NORCROSS.

NORCROSS BROTHERS,
CONTRACTORS AND BUILDERS,

WORCESTER, MASS.

BOSTON OFFICE, 79 HUNTINGTON AVE.

TELEPHONE No. 262 TREMONT.

BOSTON, MASS., May 7th, 1896.

American Hoist & Derrick Co.,

St. Paul, Minn.

Gentlemen:- The engine furnished by you has been in operation for the past eight months, doing the hardest work, and has proved to be the most satisfactory engine we have ever used, both for ease of operation and wearing qualities.

Yours truly,

The above are my Sentiments
Chas L Clark
Supt Norcross Bro
Tremont Bldg
Boston

George B Moyer
Foreman for
Norcross Bros.

Pres.

ER CROSBY, PRES. AND ENGINEER.
H. S. WOOD, TREASURER.
F. J. JOHNSON, SECRETARY.

CK CO.

TLAND ST.

George A. Fuller Company.

Building Construction.

"The Rookery

Chicago.

Buffalo, N.Y., October 26, 1894.

189

American Hoist & Derrick Co.,

St. Paul, Minn.

Gentlemen:

We are using several of your engines and for our purpose consider them the best we have ever used.

Yours truly,

L. G. Wells Supt
Geo A. Fuller Co

Geo. M. Jaure Pres.

VER CROSBY, PRES. AND ENGINEER.
H. S. WOOD, TREASURER.
F. J. JOHNSON, SECRETARY.

vv

CK CO.

TLAND ST.

GEO. D. WEBB, *Pres.* JAS. FERNALD, *Vice-Pres.* E. K. WHEELOCK, *Treas.*

The Webb Granite and Construction Co.

Quarries and Works at
MARLBOROUGH, N. H.
FITZWILLIAM, N. H.
WORCESTER, MASS.

Established 1873.
Incorporated 1891.

Worcester, Mass., April 11, 1894.

American Hoist & Derrick Co.,

St. Paul, Minn.,

Gentlemen,

In response to your inquiry, we will say, we have had two of your Engines in use, about two years and have used another with your material elevator for the past year, and have just ordered another engine and elevator. We are well pleased with the machinery you have furnished us, as this last order shows

Yours Resp'y.,

Geo D Webb Pres

Pres.

VER CROSBY, PRES. AND ENGINEER.
H. S. WOOD, TREASURER.
F. J. JOHNSON, SECRETARY.

CK CO.

TLAND ST.

CHAS. M. JARVIS, Pres. & Chief Engineer — BURR H. FIELD, Vice President — GEO. H. SAGE, Secretary — F. L. WILCOX, Treasurer

THE BERLIN IRON BRIDGE CO.

CAPITAL $ 500,000.00

E. W. STEARNS, Chief Clerk

OF IRON AND STEEL BRIDGES, BUILDINGS, ETC.

East Berlin, Conn.

Oct. 11, 1895.

American Hoist & Derrick Co.,

St. Paul, Minn.

Gentlemen:-

The turning rigging which we bought of you last spring for our two derricks is very satisfactory indeed. It has now been in use a matter of six months and we believe it has paid for itself in that time. If we could not duplicate these we would not sell them for four times what they cost us and have no hesitation in saying they are the best appliances of the kind that we have ever seen and that we have saved more money on these two pieces of machinery in proportion to the expenditure than on any piece of machinery that we have bought in the past eight years.

Yours truly,

Chas. M. Jarvis

Pres.

1897.

OLIVER CROSBY, PRES. AND ENGINEER.
H. S. WOOD, TREASURER.
F. J. JOHNSON, SECRETARY.

THIS book contains pictures of some of the plants we have made, and gives a general idea of what we manufacture. Our regular catalogue will be sent on application. Please write us for it.

AMERICAN HOIST AND DERRICK CO.

....ST. PAUL, MINN....

Branches:

CHICAGO,
60 SOUTH CANAL ST.

NEW YORK,
HAVEMEYER BLDG., 26 CORTLAND ST.

CINCINNATI,
CAREW BUILDING.

NEW ORLEANS,
407 HENNEN BUILDING.

Cut 372.

THIS QUARRY IS 200 MILES NORTH OF ICELAND AND THE ARCTIC CIRCLE.
Our Engines and Derricks at Steinavoer, Norway, Quarrying for the Andenoes Breakwater.
Michael Leegaard, Engineer of Harbor Improvements, Norwegian Government.

Cut 311.

STIFF LEG DERRICK WITH TUBULAR BOOM—STEAM POWER.

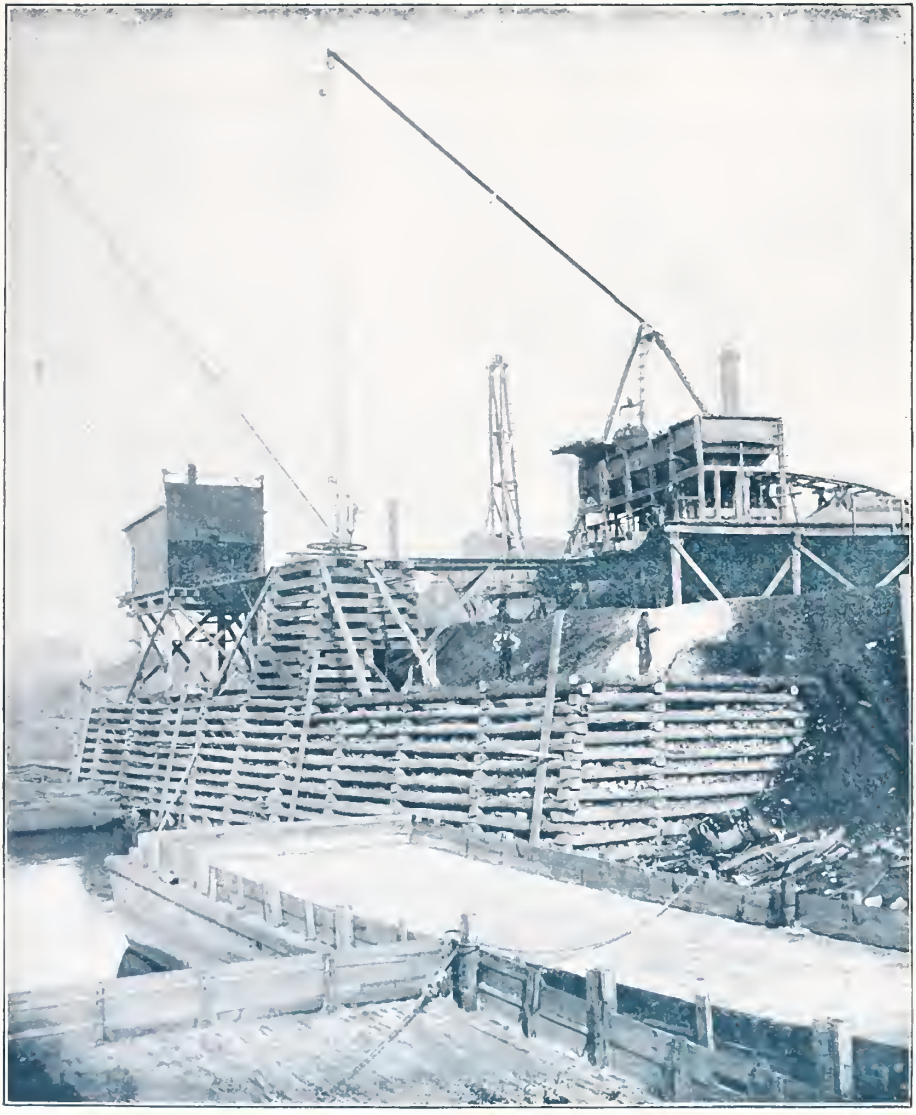
Used in the erection of Government Building at Duluth, Minn. Thompson & McKenzie, Contractors.
Mast, 28 ft. Boom, 56 ft. Tested Capacity, 5 ton.

Cut 346.

FULL CIRCLE STIFF LEG DERRICK—STEAM POWER.

Stone Yard of Victor Campros, Contractor, Detroit, Mich.

(Send for Our Large Catalogue.



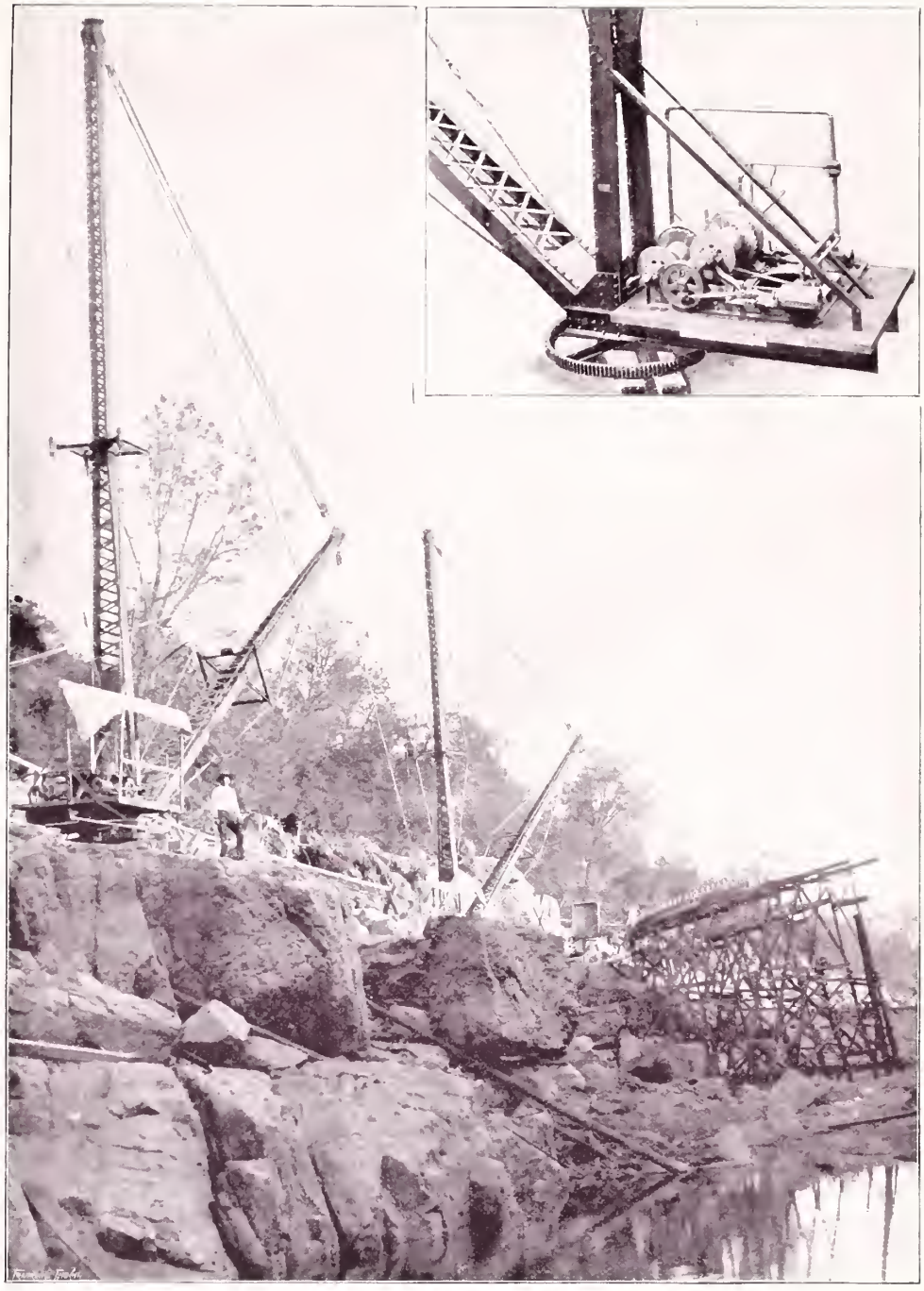
Cut 366.

COMBINED GUY AND STIFF LEG DERRICK,

WITH TURNING WINCH AND BULL WHEEL.

Dock of INDIANA CONTRACT CO., Evansville, Ind.,

Archibald Hollerbach, Manager.



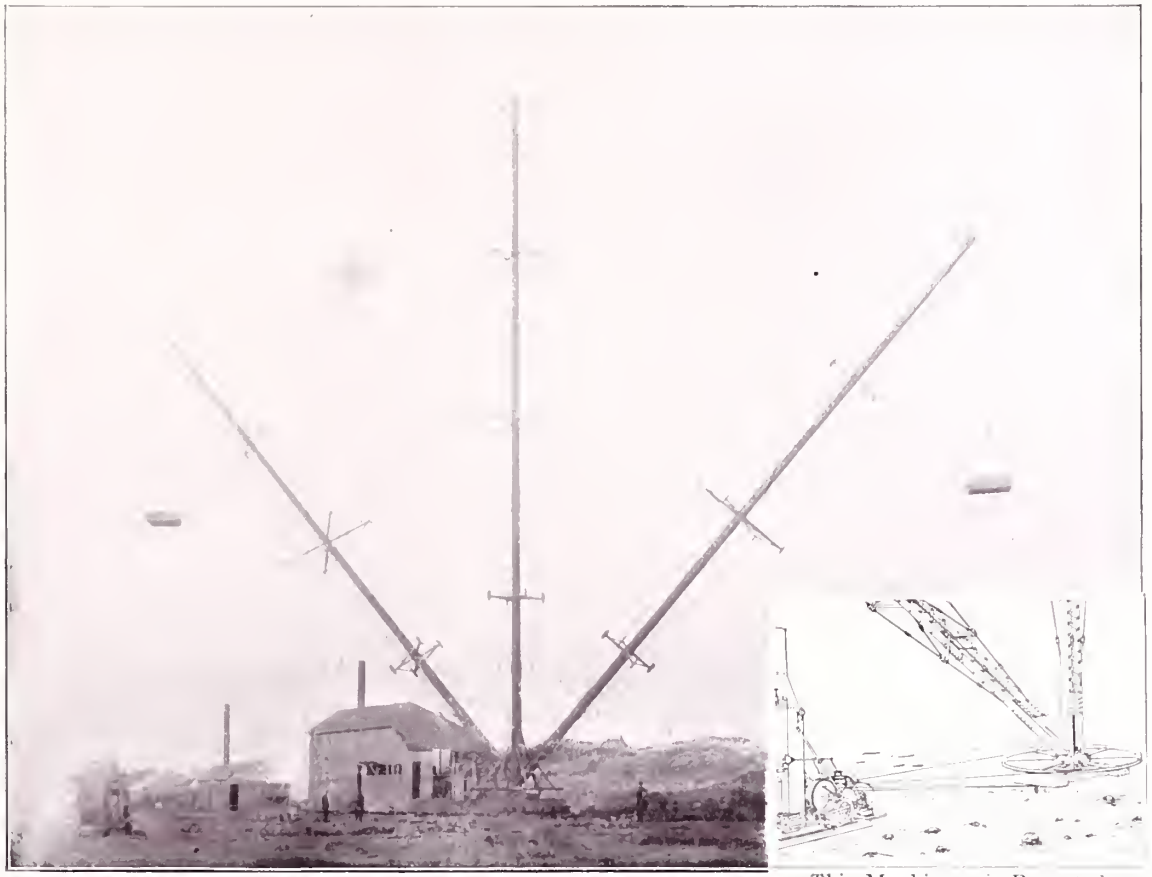
Cut 373.

PLACER MINING WITH STEEL DERRICKS at Oroville, California.
Masts, 60 ft. Booms, 55 ft. Capacity, 7 tons. Boom Revolves by Power. (See small cut.)
Both Derricks are Supplied with Steam from a Stationary Boiler.
Golden Feather, Ltd., London, George H. Evans, General Manager.

Cut 363.

Cut 342.

22 GUY DERRICKS—ENGINES AND HORSE POWERS.
Used in constructing Government Locks on the Kanawha River, West Virginia.
Zimmerman, Truax & Sheridan, Contractors.

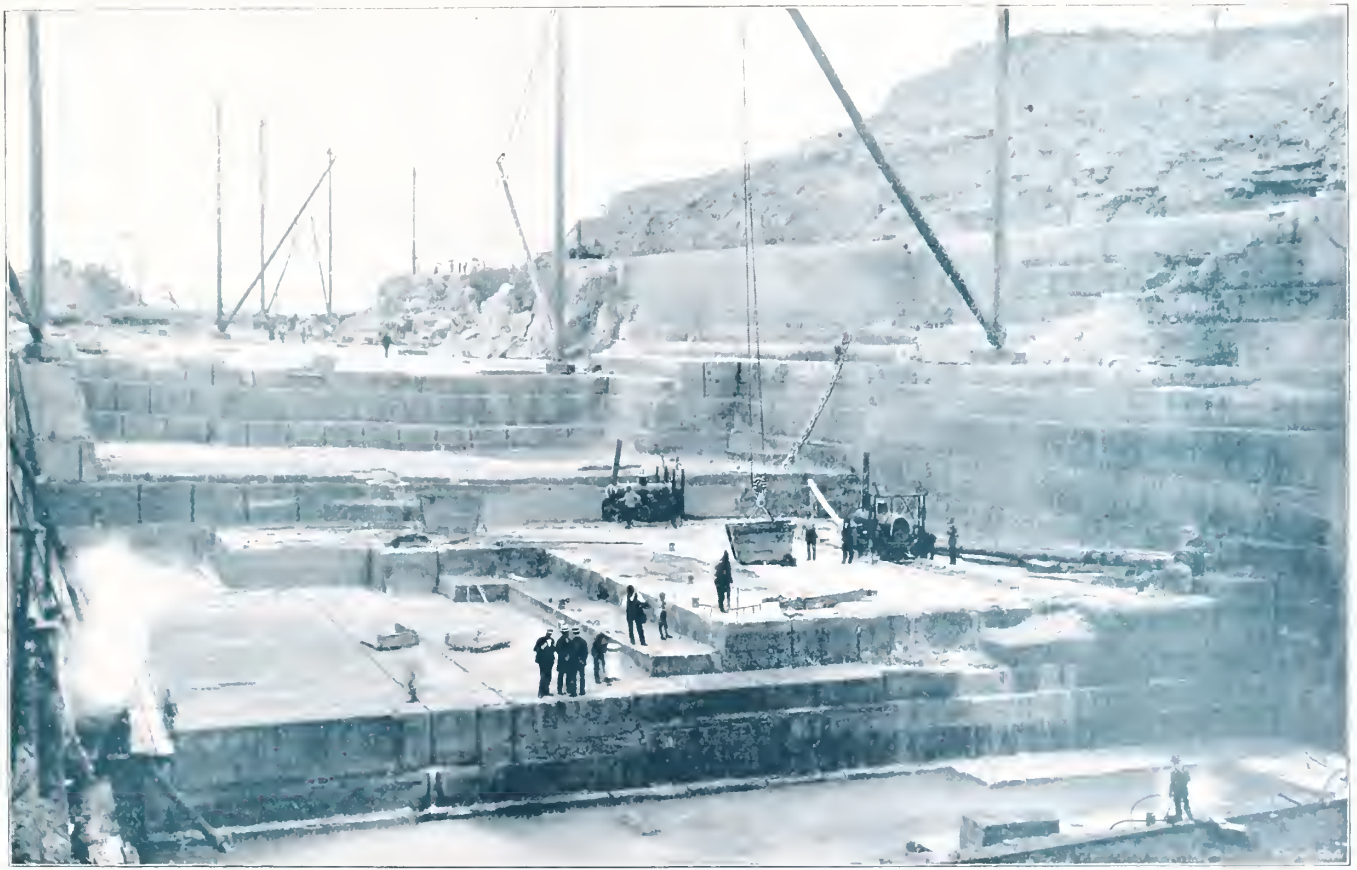


This Machinery is Patented.

Cut 353.

STEEL GUY DERRICK—WITH DOUBLE BOOMS.

Operated with a Four Drum Engine, with Turning Winch and Bull Wheel. Mast, 130 ft. Boom, 120 ft. Capacity, 10 tons.
USED ON THE CHICAGO DRAINAGE CANAL.



Cut 371.

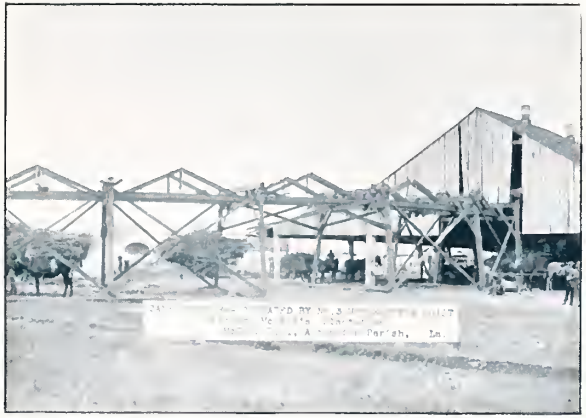
GUY DERRICKS—STEAM POWER.

At this Quarry at Plato are 15 Derricks and 5 Hoisting Engines of Our Make. E. J. C. Bealer, Proprietor, Cedar Rapids, Iowa.

Cut 347.

GUY DERRICK—STEAM POWER.

Quarry of Carthage Quarry and Construction Co., Carthage, Mo. Capacity of Derrick, 20 tons.



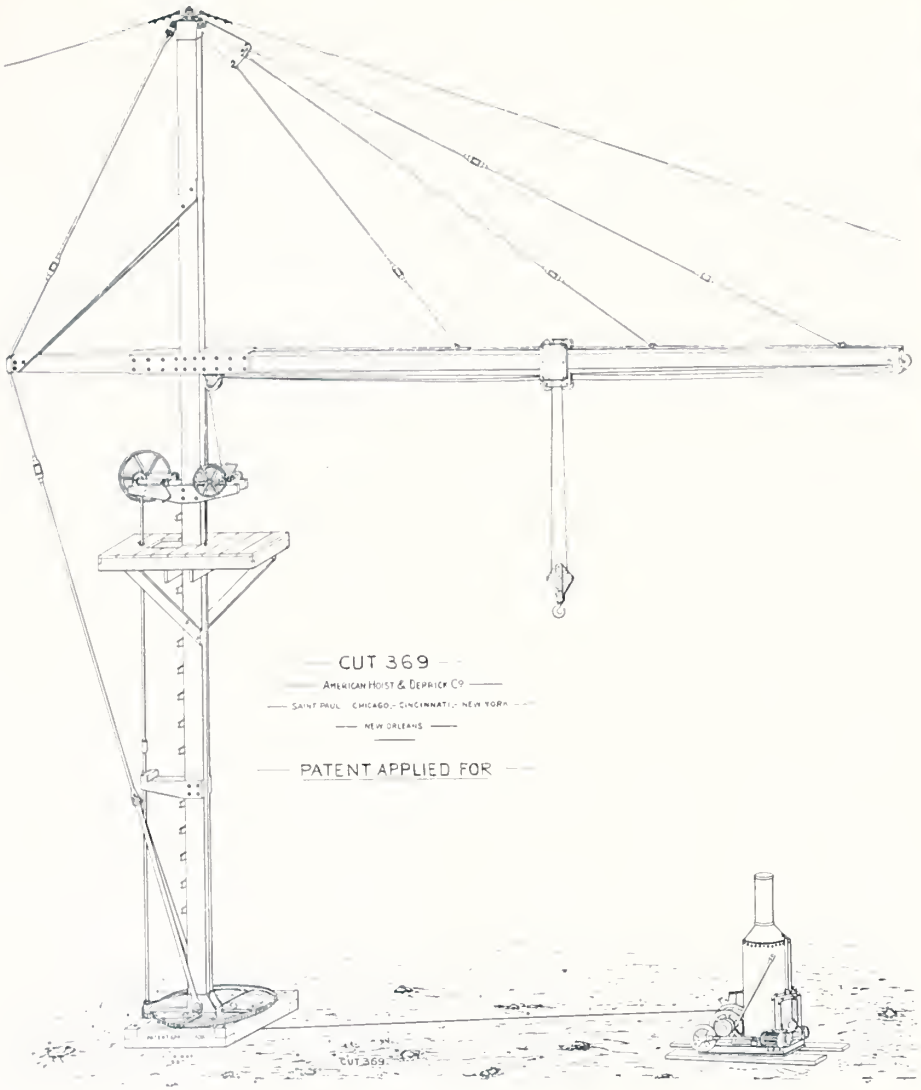
"DOWN WHAR DE SUGAR CANE GROWS."

Our Derricks and Horse Powers are Used Extensively in the South.

Cut 340.

STIFF LEG DERRICK—WITH NO. 26 ENGINE.

Used in erecting a business block at Detroit, Mich., H. George & Sons, Contractors. Mast, 24 ft. Boom, 45 ft. Capacity, 5 tons.
(Send for Our Large Catalogue.)



Cut 369.

IMPROVED CRANE DERRICK.

(The public are warned from using Derricks infringing our patents.)

FOR ERECTING THE WALLS OF BUILDINGS. (See pages following.)

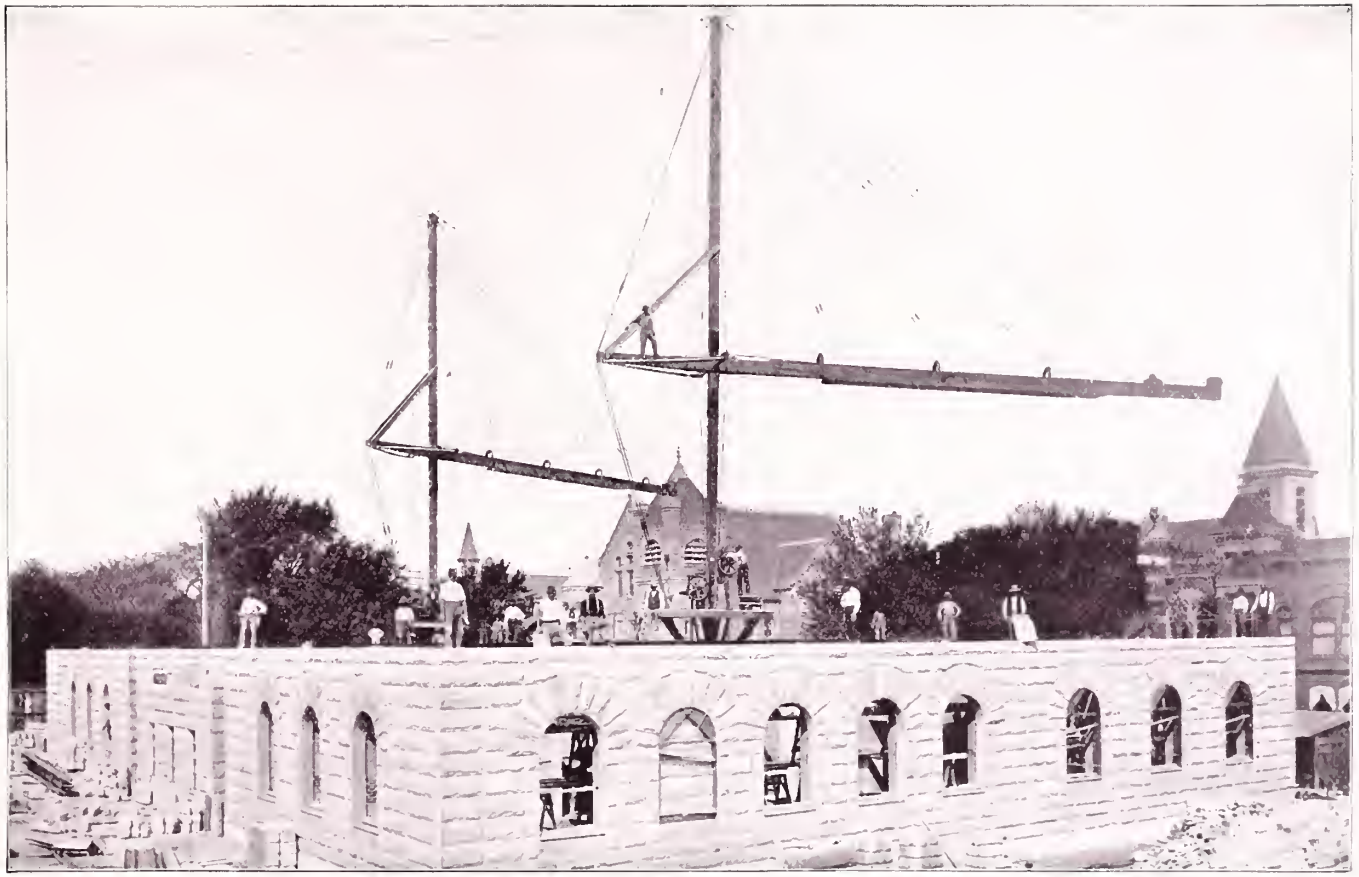
A Double Drum Hoisting Engine (page 33) will Operate Two Derricks. A man on the mast platform moves the trolley in or out, revolves the Derrick, and is in a position to signal and watch everything.

A STANDARD SIZE.

Capacity	3 Tons
Boom (effective reach)	50 Feet
Mast	60 Feet
Ground to Boom	35 Feet

These Derricks are made in several sizes, with capacity up to 10 tons.

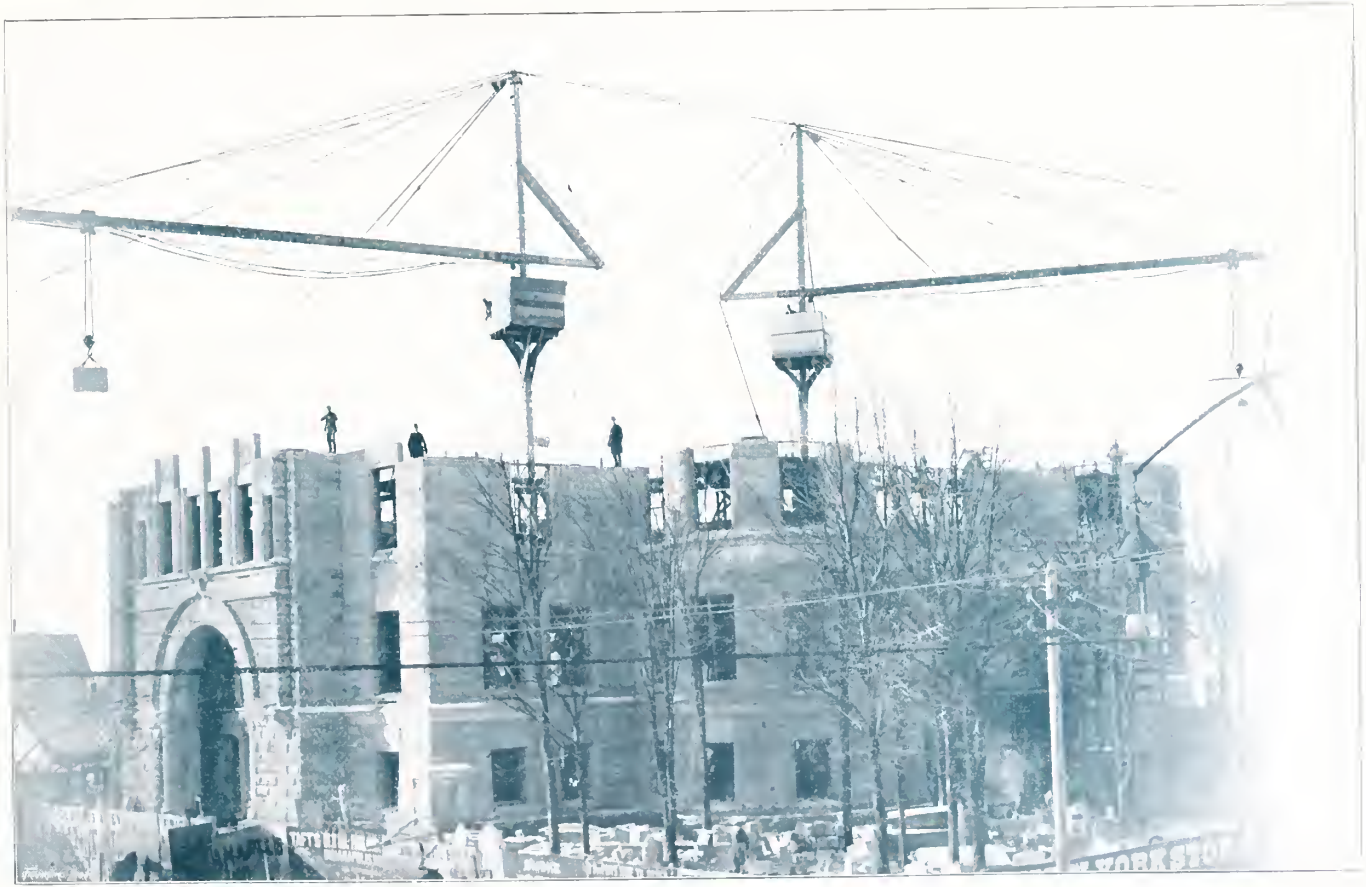
We usually furnish the IRON WORK and DRAWINGS, the wood work being done at the work.



Cut 374.

CRANE DERRICKS—STEAM POWER FOR HOISTING.

Men on the Platform run the Load in or out and Revolves the Derrick. Mast, 76 ft. Boom, 62 ft. Capacity, 3 tons.
C. W. Chittenden, Contractor, Lansing, Mich.

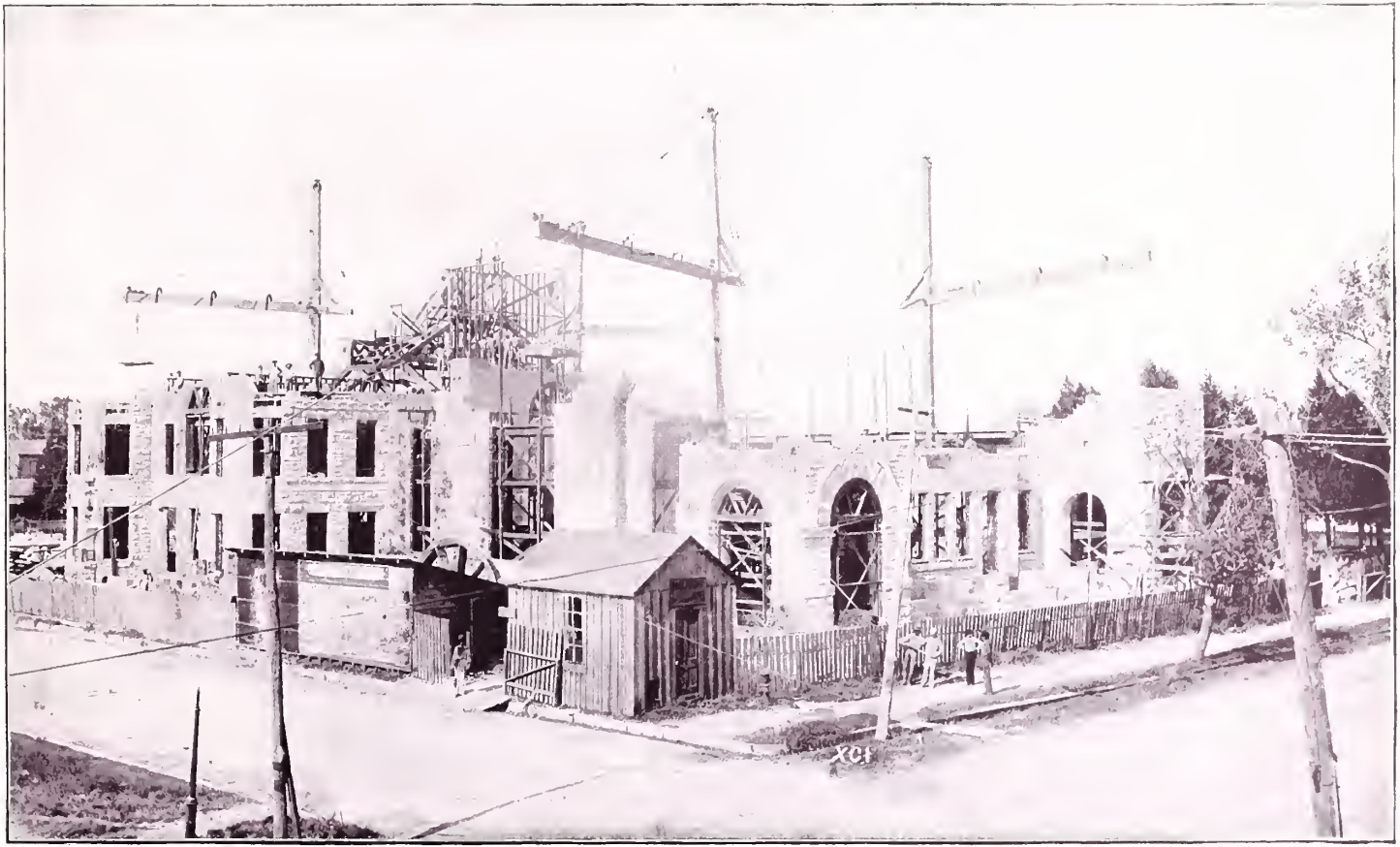


Cut 383.

CRANE DERRICK—STEAM POWER FOR HOISTING.

A Man on the Mast Platform Runs the Load in or out and Revolves the Derrick. (Platform is shown boxed in.)

Mast, 65 ft. Boom, 60 ft. Capacity, 3 ton. (Standard Sizes.) Geake, Henry & Green, Contractors, Greenfield, Ind.

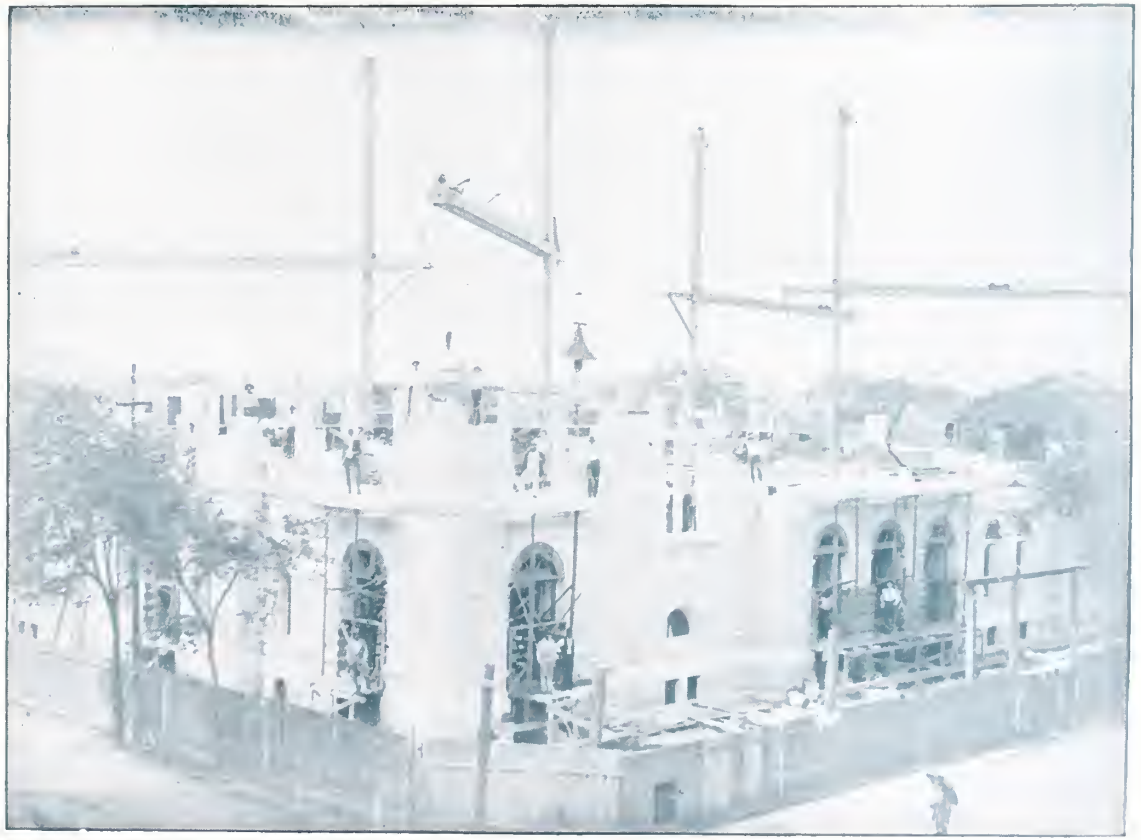


Cut 359.

CRANE DERRICKS—STEAM POWER.

USED IN ERECTING A CHURCH AT HOUSTON, TEX.—M. CLARK & CO., CONTRACTORS.

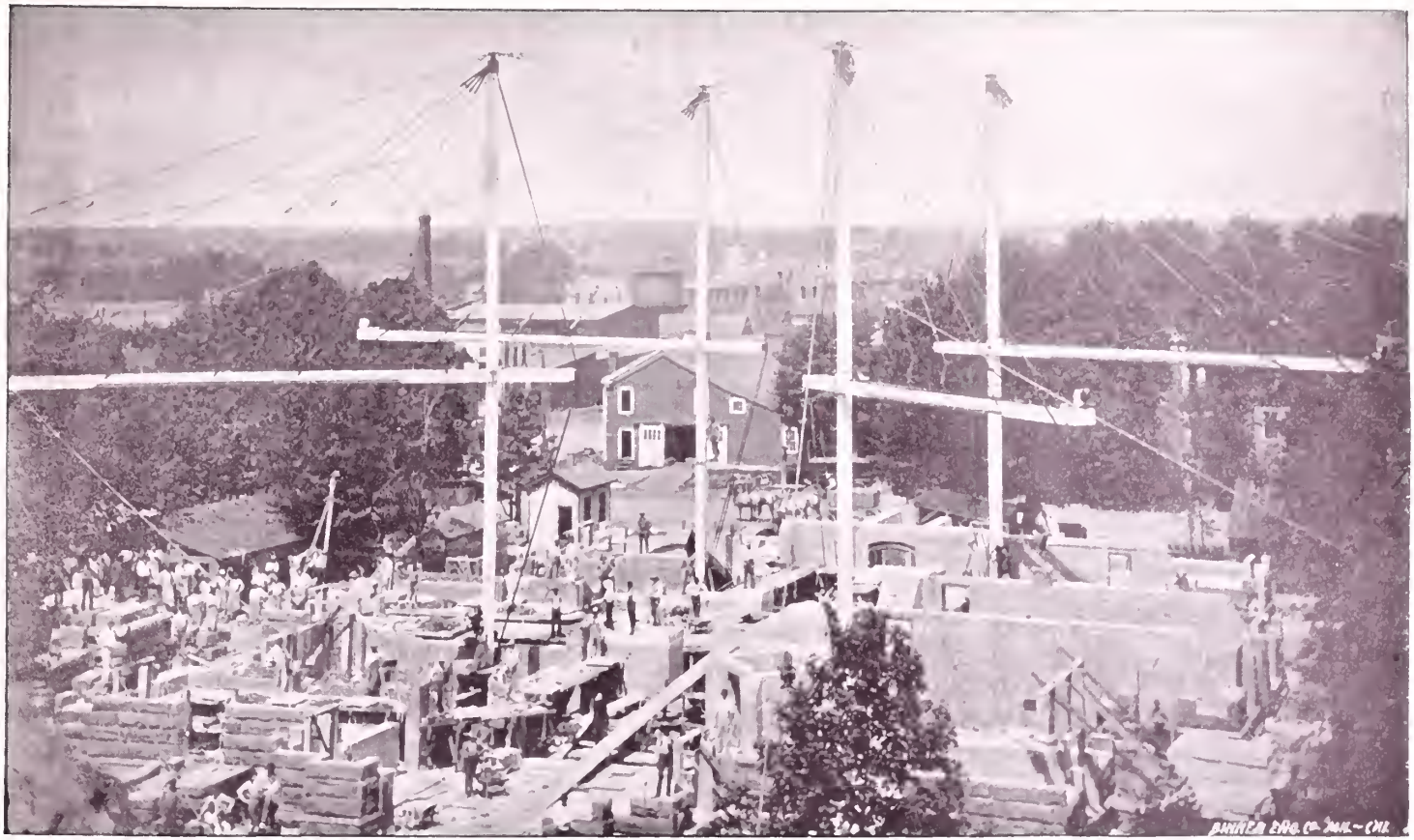
Masts, 46 ft. Boom, 35 ft. Capacity, 5 tons.



Cut 307.

CRANE DERRICKS—STEAM POWER.

Used in erecting Government Building at Charleston, S. C. D. A. J. Sullivan, Contractor. Mast, 60 ft. Boom, 48 ft. Capacity, 7 ton.



Cut 314.

CRANE DERRICKS—STEAM POWER.

Used in Constructing a Government Building at La Porte, Ind. Chas. A. Moses, Contractor. Mast, 68 ft. Boom, 60 ft. Capacity, 5 ton.
(Send for Our Large Catalogue.)

Cut 341.

CRANE DERRICKS—STEAM POWER.

Used in erecting the Bradbury Building, Los Angeles, California. Mast, 80 ft. Boom, 54 ft. Capacity, 6 tons.

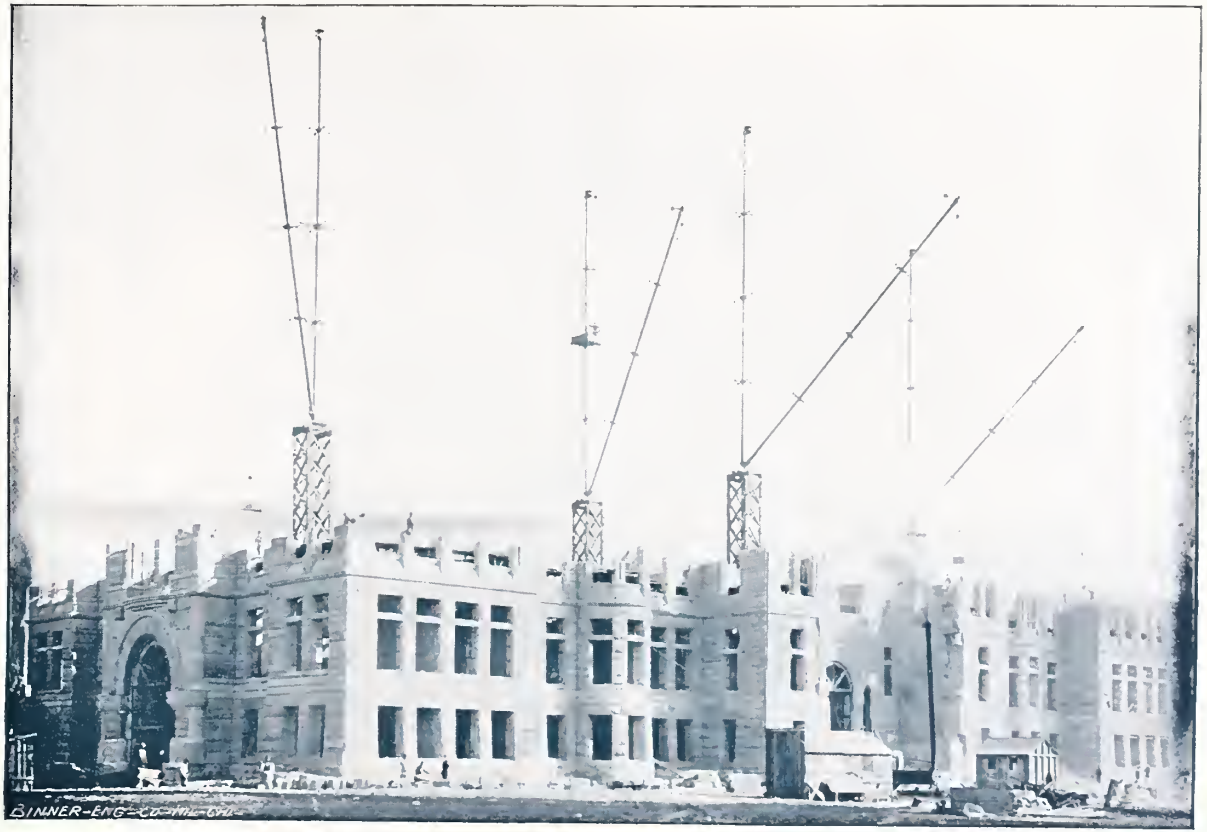
Cut 361.

SECTIONAL TIMBER DERRICK—STEAM POWER.

(The longest piece of timber in this derrick is 20 feet.)

QUARRY OF DE GRAFF & ROBERTS, ALBION, N. Y.

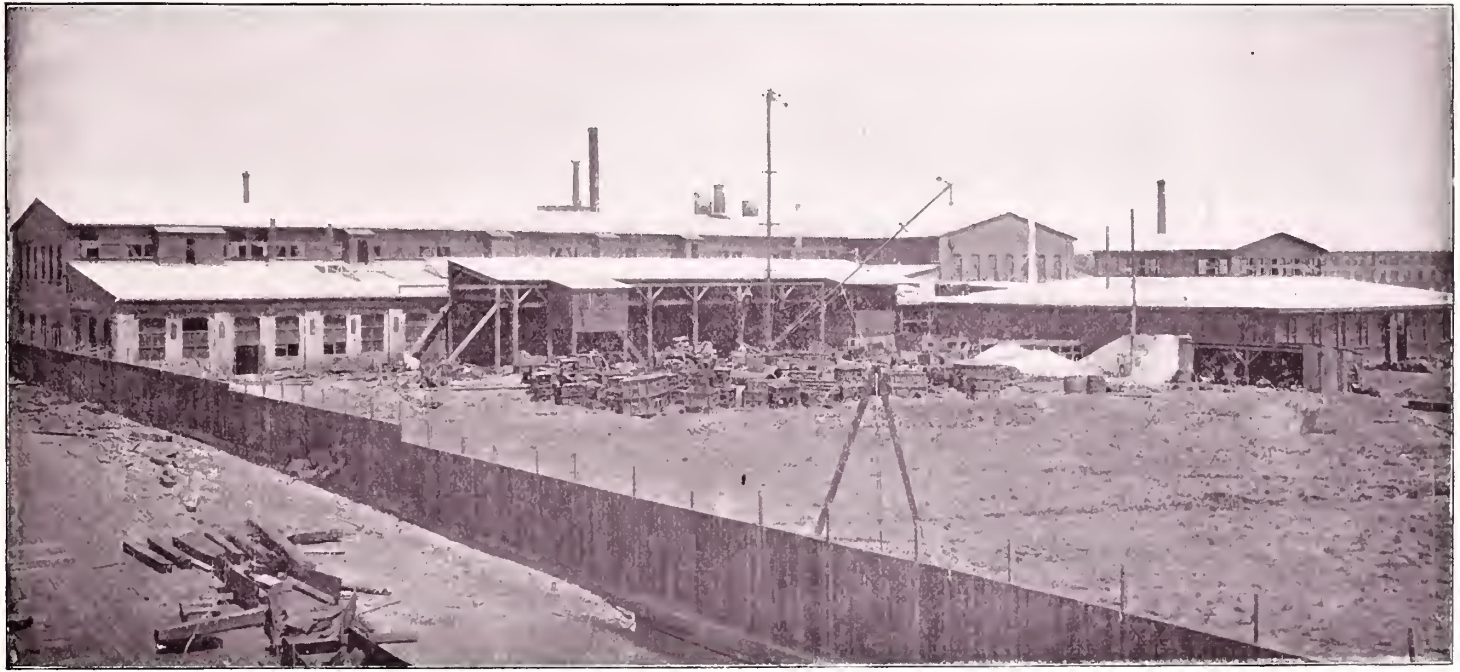
Mast, 80 feet. Boom, 75 feet. Capacity, 15 tons.



Cut 308.

TUBULAR DERRICKS—STEAM POWER.

Used in erecting City Hall and Court House at Salt Lake City, Utah. Duvall & Mills and Houlahan, Griffith & Morris, Contractors. Mast, 80 ft. Boom, 75 ft. Tested Capacity, 5 ton.

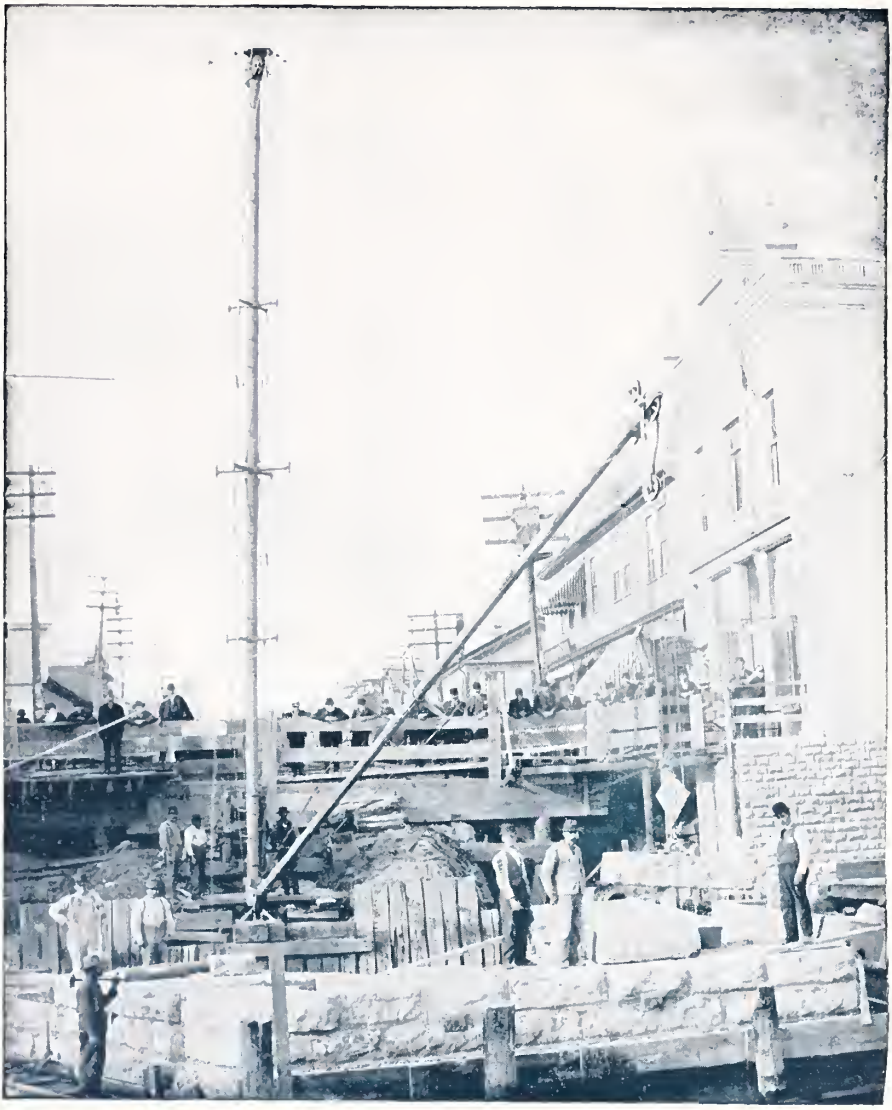


Cut 344.

TUBULAR DERRICK—ELECTRIC POWER.

Yard of Henry R. Worthington's Pump Works, Elizabethport, N. J.

Mast, 55 ft. Boom, 50 ft. Capacity, 5 ton.



Cut 306.

TUBULAR DERRICK—HAND POWER.

Used on bridge piers at Manitowoc, Wis., by Knapp & Gillen, Contractors.

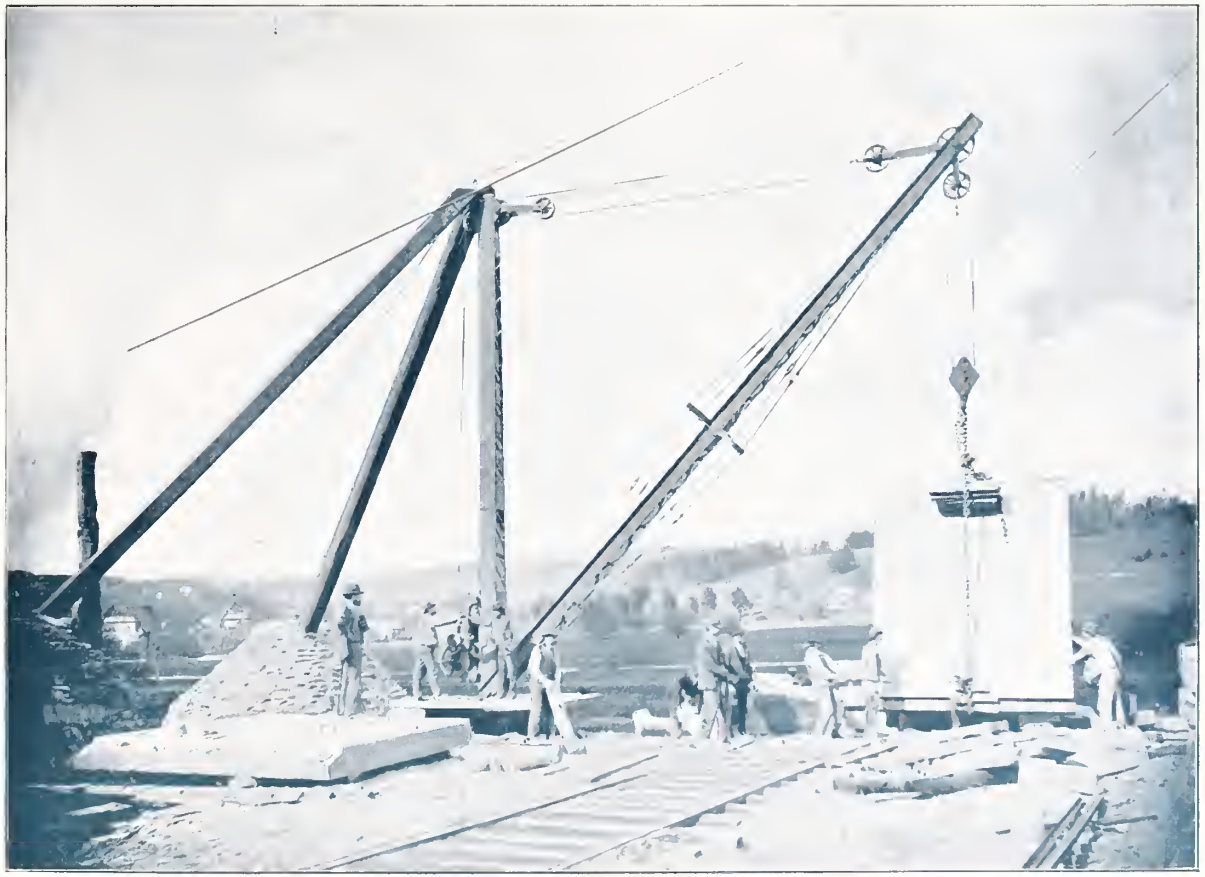
Mast, 55 ft. Boom, 50 ft. Capacity, 5 ton.

(Send for Our Large Catalogue.)

Cut 339.

STIFF LEG DERRICKS—STEAM POWER.

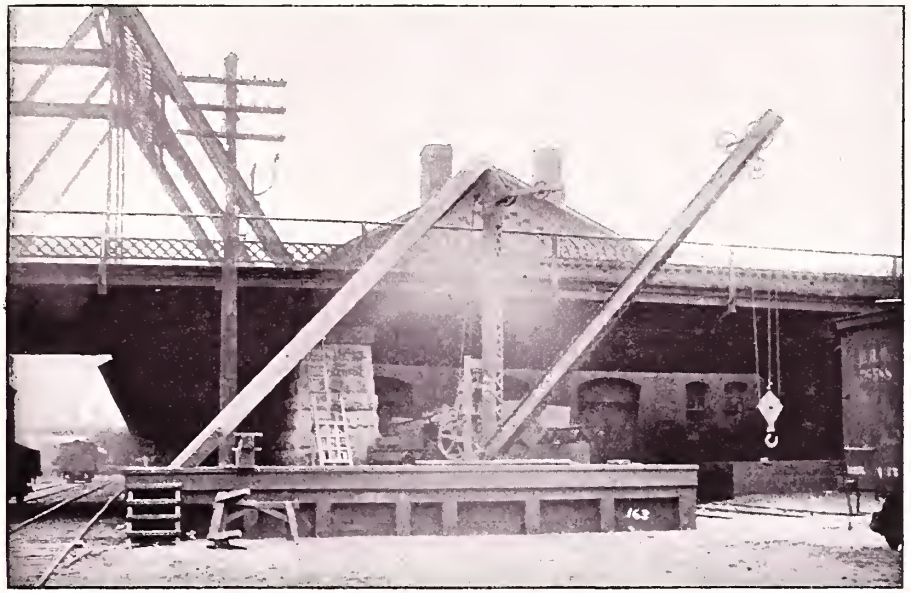
Used at Rochester, N. Y., by A. Friederich & Son, Contractors.



Cut 345.

STIFF LEG DERRICK—STEEL MAST AND BOOM.

Used by Trainor Bros., Oxford, N. Y. Mast, 30 ft. Boom, 40 ft. Capacity, 20 tons.

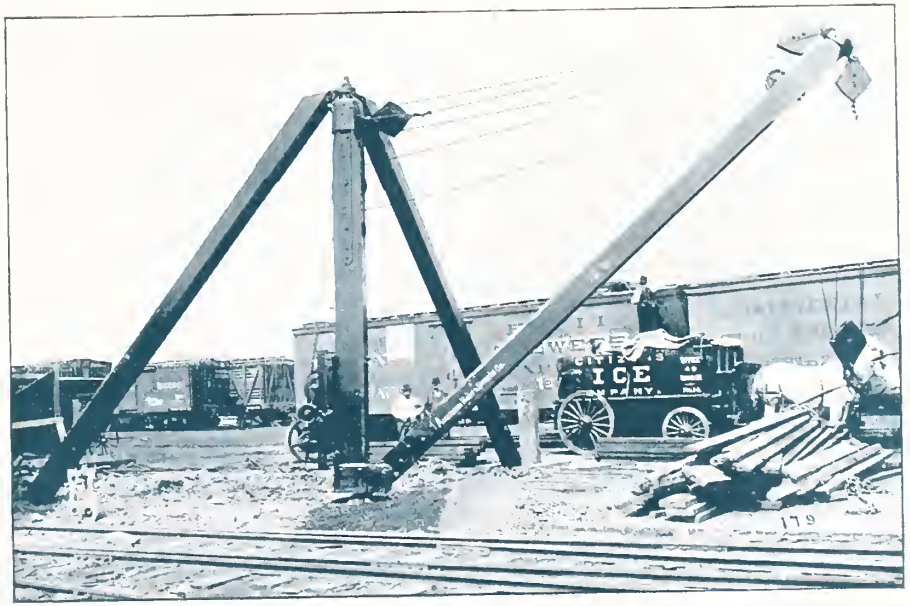


Cut 379.

STIFF-LEG YARD DERRICK. (Steel Mast and Boom.)

Capacity, 20 tons. Mast, 20 ft. Radius of Boom, 30 ft.

Pennsylvania Railroad Co., Jackson Street Freight Yards, Chicago, Illinois.



Cut 380.

STIFF-LEG YARD DERRICK.

Capacity, 12 tons. Mast, 18 ft. Radius of Boom, 28 ft.

Lake Shore & Michigan Southern Railway Co., Louisiana Street Freight Yards, Buffalo, New York.

Cut 381.

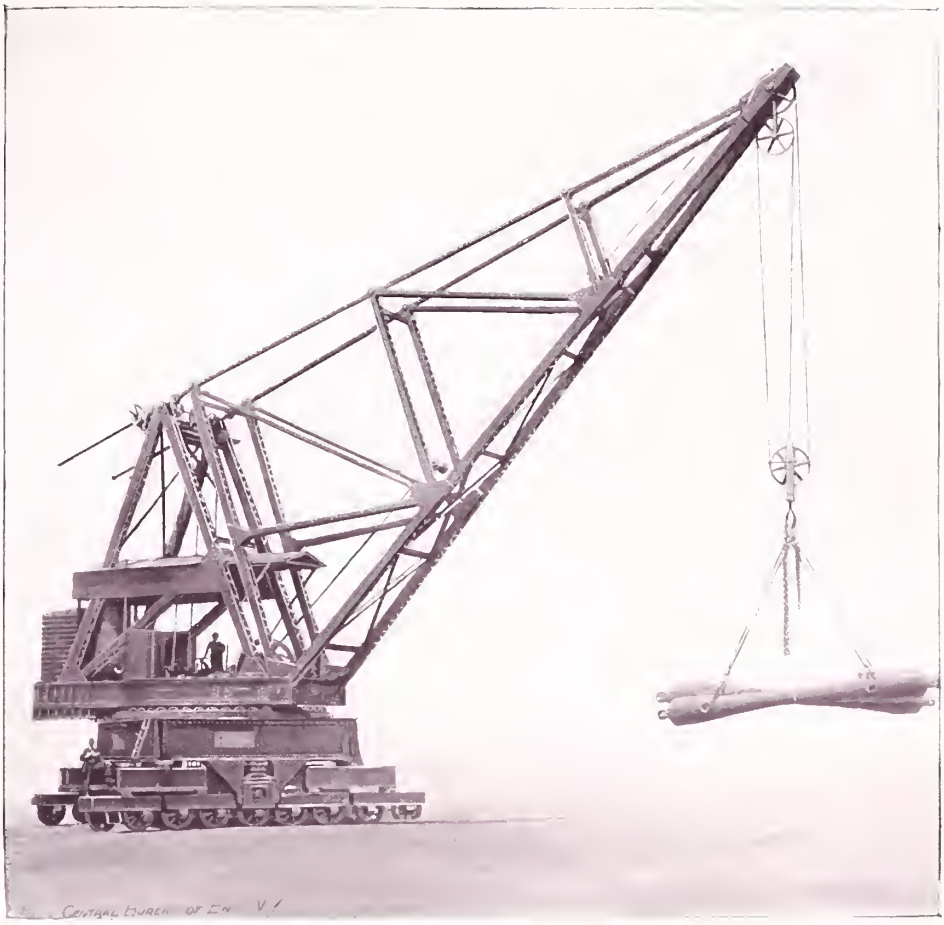
STIFF-LEG PLATFORM DERRICK. (Steel Mast and Boom.)

Capacity, 10 tons. Mast, 30 ft. Radius of Boom, 25 ft.

Missouri Pacific Railway Co., Poplar Street Freight Platform, St. Louis, Mo.

(Send for Our Large Catalogue.)

Cut 343. AMERICAN HOIST & DERRICK CO.'S EXHIBIT, WORLD'S FAIR—THIS EXHIBIT TOOK THE MEDAL.
Tubular Guy Derrick—Mast, 80 ft. Boom, 75 ft. Capacity, 10 tons. Crane Derrick—Mast, 65 ft. Boom, 50 ft. Capacity, 5 tons.
Stiff-Leg Derrick—Mast, 30 ft. Boom, 40 ft. Capacity, 8 tons.



Cut 386.

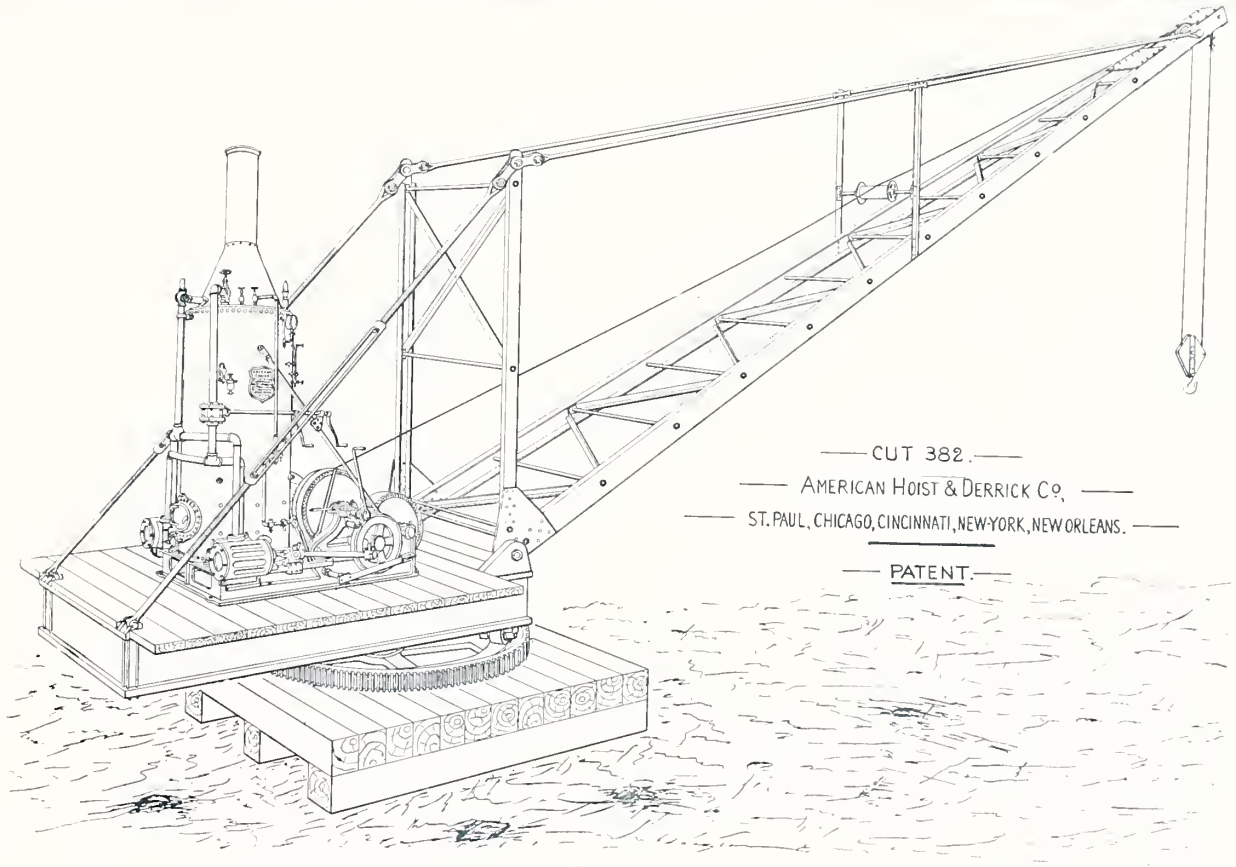
THE LARGEST LOCOMOTIVE CRANE EVER BUILT.

Designed, Built and Erected by us at the United States Navy Yard, Mare Island, California.

(Patented.)

Lifting Capacity	45 Tons.
Reach of Boom	75 Feet.
Weight	400 Tons.
Price	Fifty Thousand Dollars

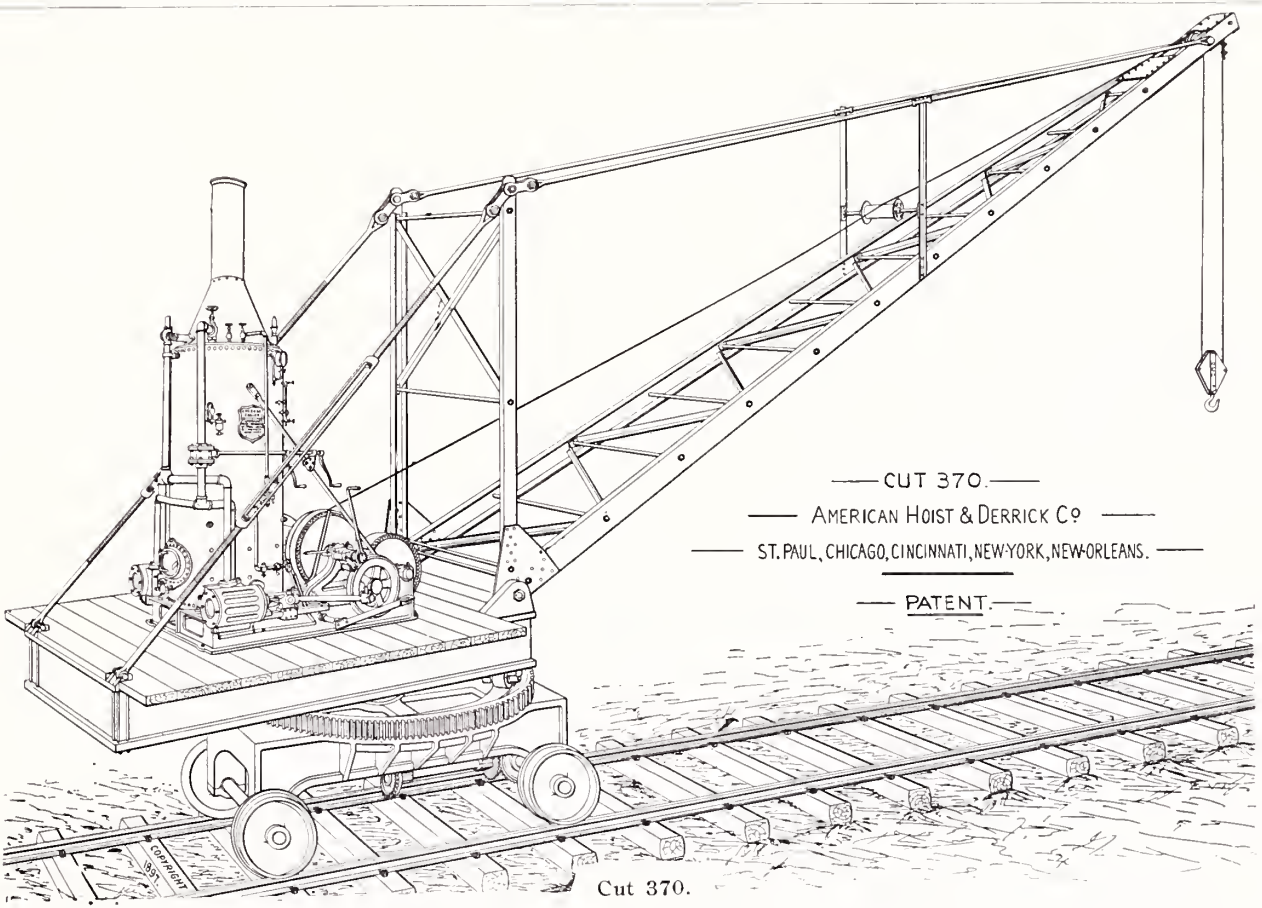
(Send for Our Large Catalogue.)



Cut 382.

STATIONARY CRANE—FOR PLATFORMS, DOCKS, YARDS, ETC.

IT CAN BE USED ON AN ORDINARY FLAT CAR, with Power taken to the Track Wheels if necessary.
Capacity, 3 tons. Reach of Boom, 40 ft. We make these Cranes in a variety of sizes.
In Writing Please State: Load Desired to Lift, Reach of Boom, Size of Available Ground or Platform Space.

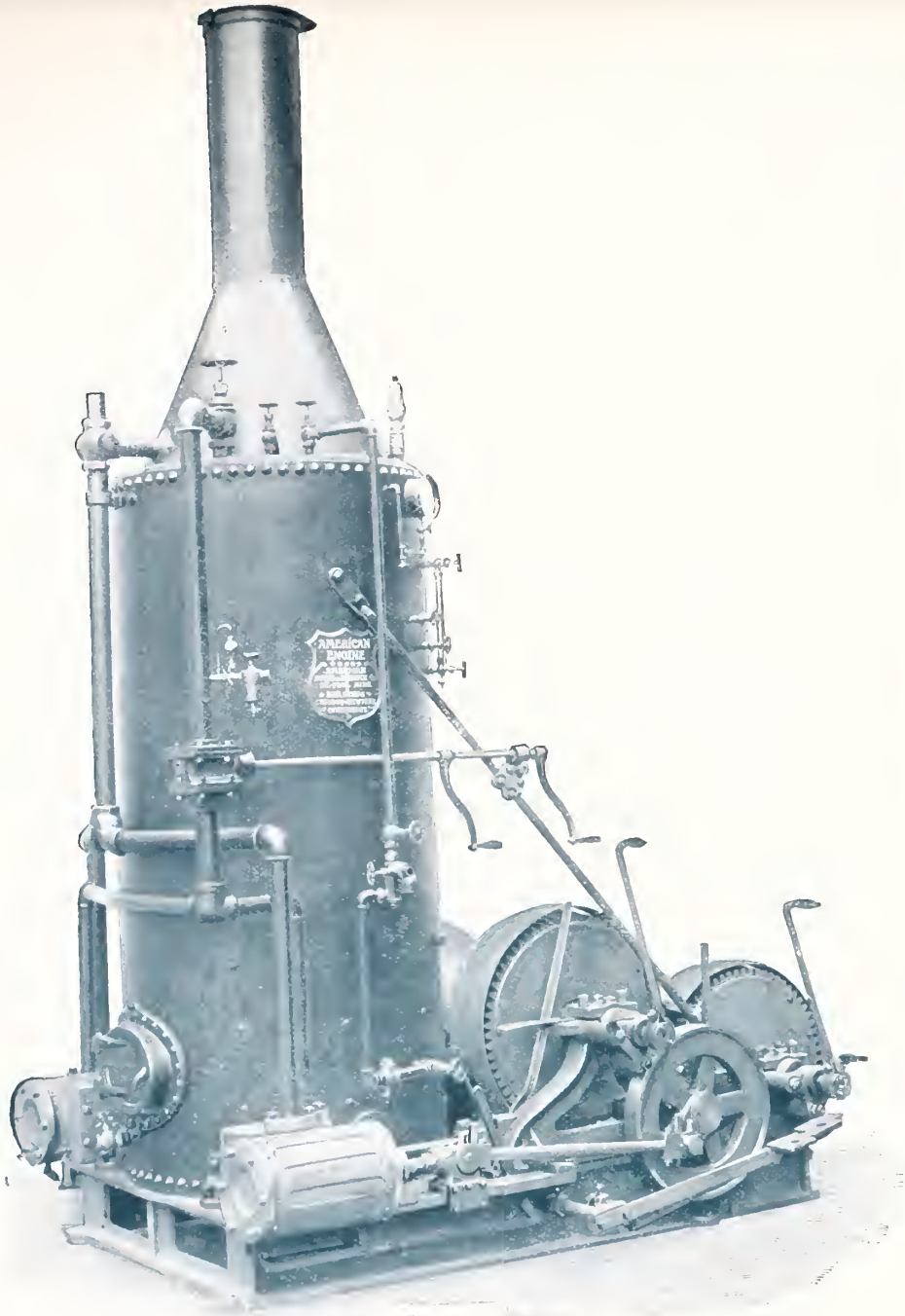


Cut 370.

LOCOMOTIVE CRANE. (Patented.)

For Yards, Walls, Trenches, etc. Capacity, 3 tons. Gauge of track, 4 ft. 8½ in. (railroad standard.) Reach of boom, 40 feet from center of track.

We make these Cranes in a Variety of Sizes. In writing please state: Load Desired to Lift, Reach of Boom, Widest Gauge of Track that can be used.



Cut 170.

THE AMERICAN ENGINE. (70 Styles and Sizes.)

SPECIAL FEATURES OF THE AMERICAN ENGINE.

Great lifting power on a single line.

A perfect friction clutch. Ease. Strength. Adjustable for wear.

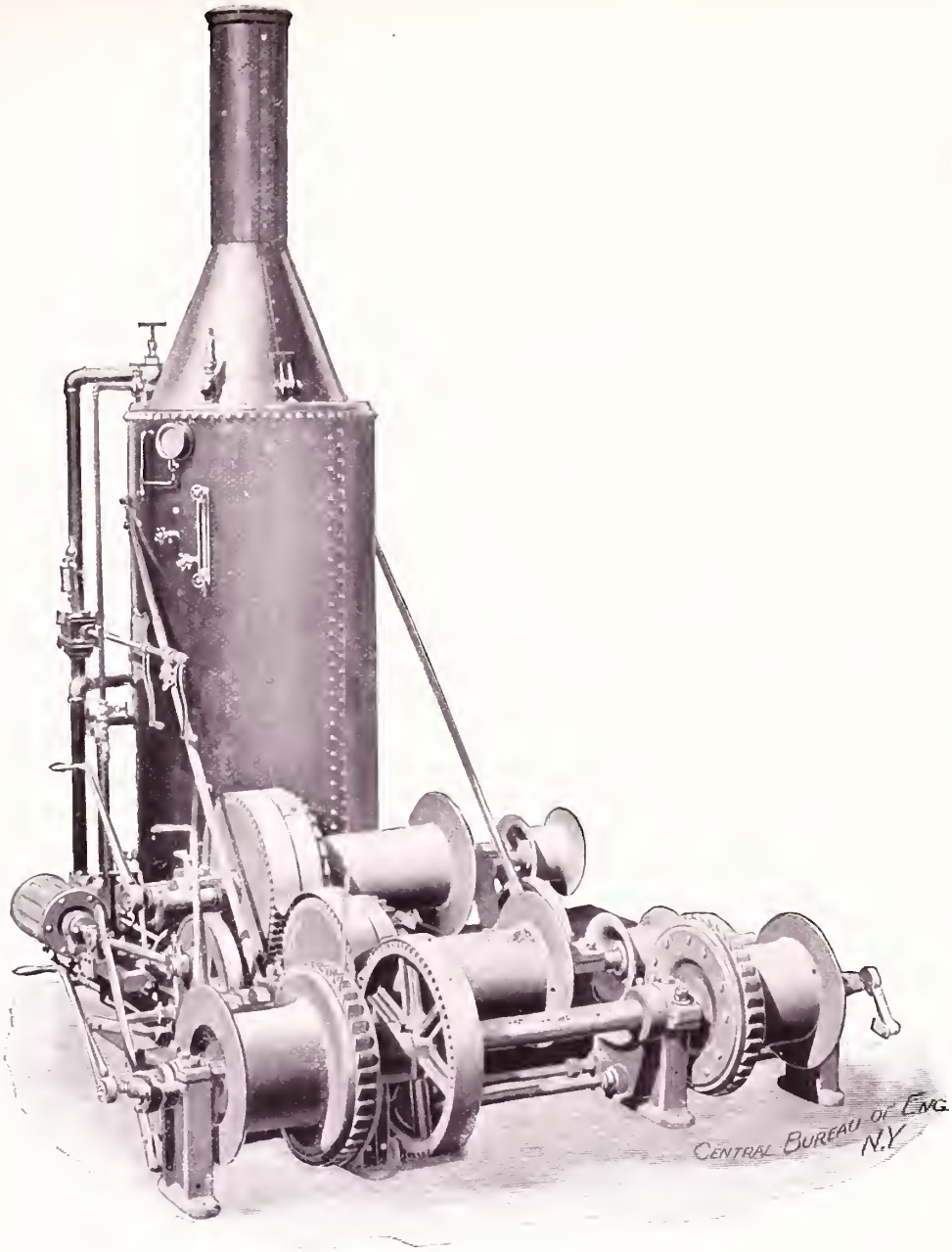
Extra large boiler. The best material. Rivet holes are drilled—increasing the safe working pressure.

The drum ratchets are WROUGHT IRON. The teeth cannot be broken.

Drums readily increased in diameter with standard lagging for quick work.

Parts are made to gauge and will interchange. Duplicate parts always in stock.

A complete, substantial engine, with weight and strength in the right place.



Cut 387.

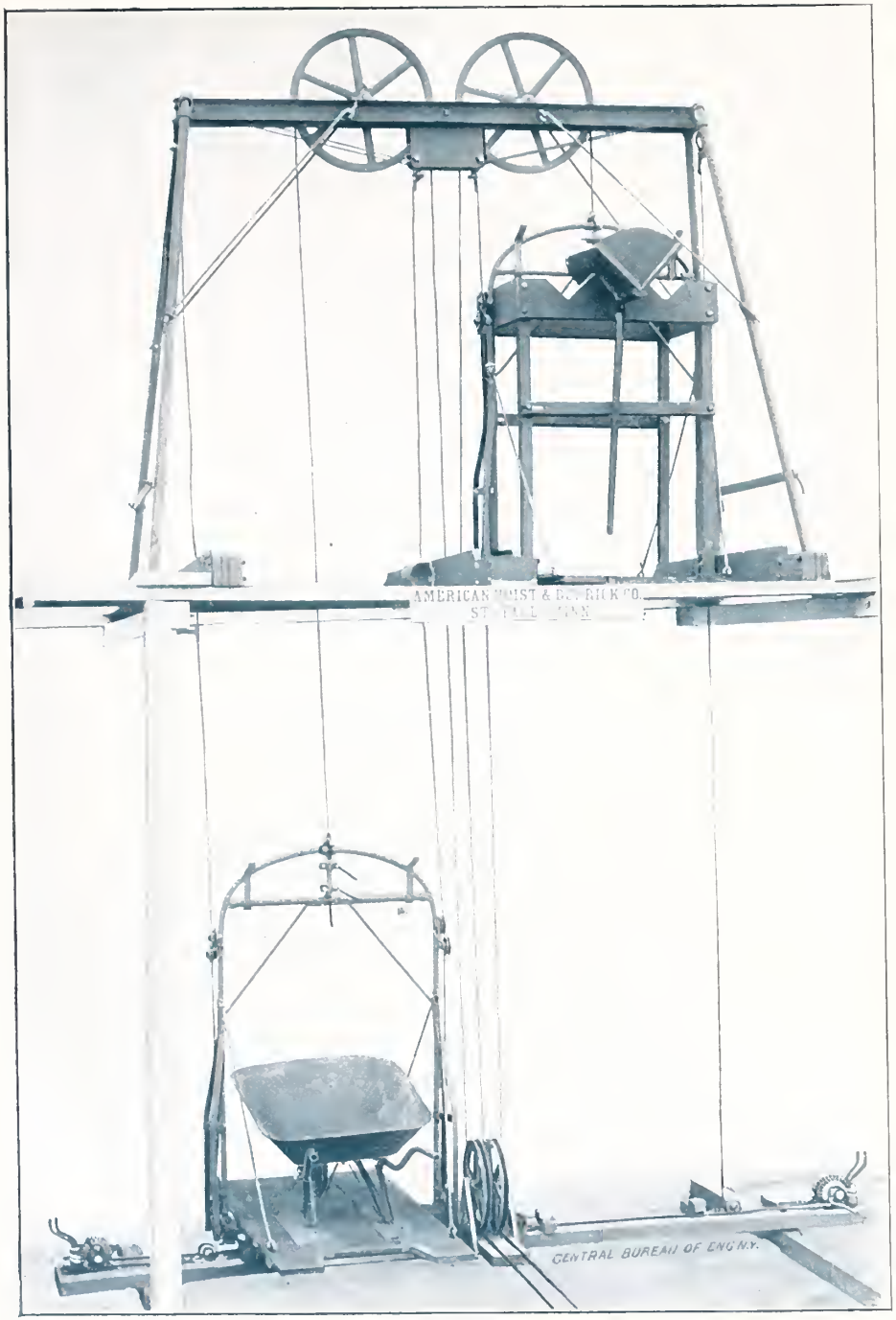
FOUR FRICTION DRUM HOISTING ENGINE.

(Patented.)

Made in 12 Sizes and Styles.

One of these Engines Operate Two Derricks very nicely.

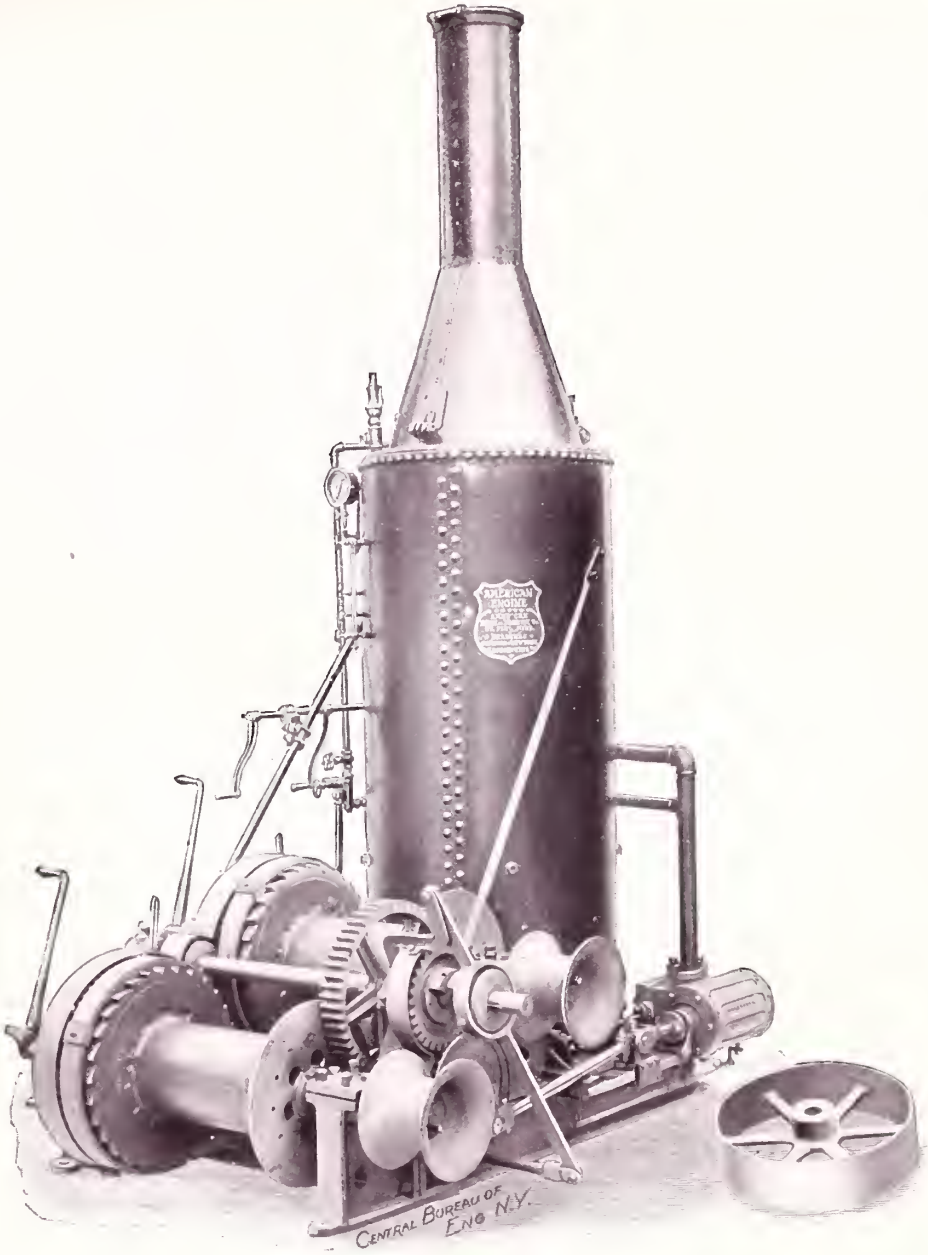
(Send for Our Large Catalogue.)



Cut 388.

THE AMERICAN MATERIAL ELEVATOR.

Operated by Steam or Horse. Easily Moved and Erected. Beats Hand Power 10 to 1.
(Send for Our Large Catalogue.)



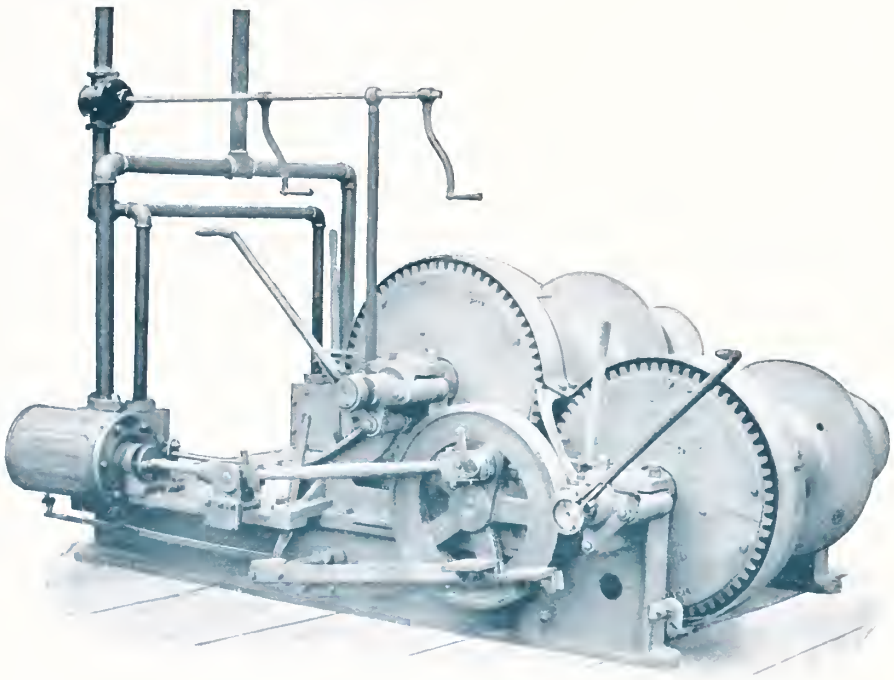
Cut 384.

UNIVERSAL HOISTING ENGINE, NO. 126.

(Patented.)

Instantly changed from 2½ ton to 5 ton pull on a single line. It has the great advantage of driving any kind of machinery by belt power. About the same weight as a standard engine, and it costs but little more.

(Send for Our Large Catalogue.)



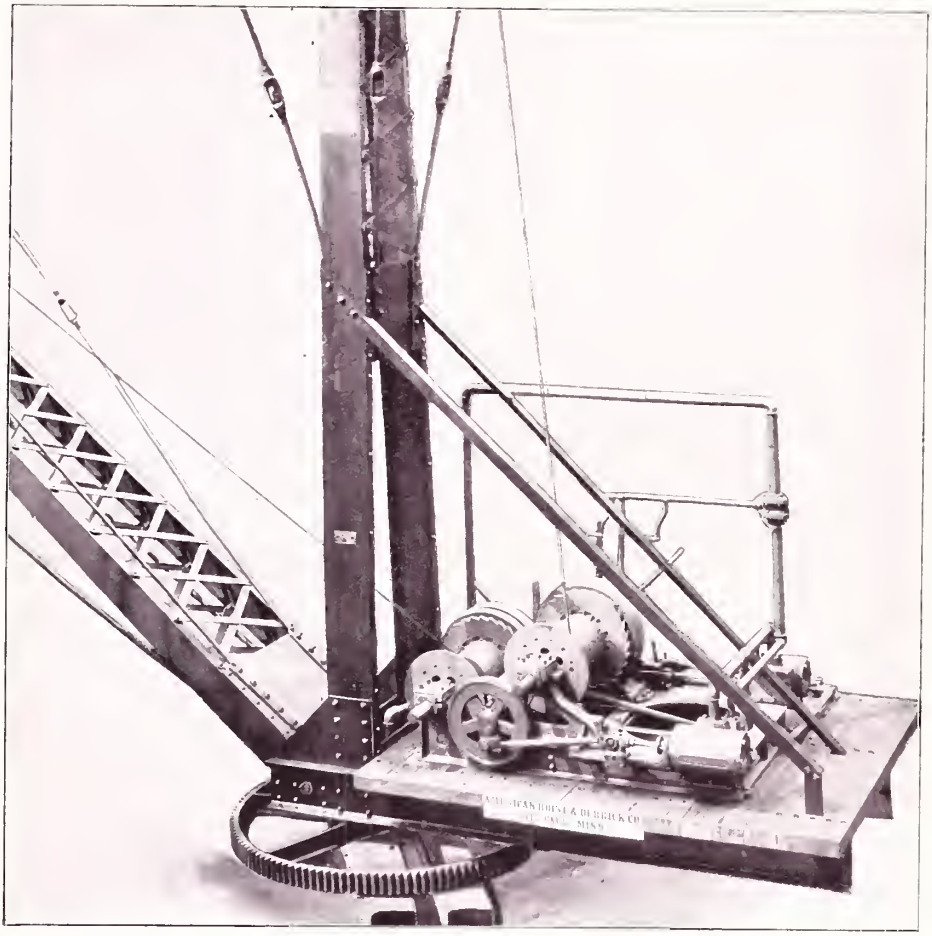
Cut 378.

DOUBLE CYLINDER HOISTING ENGINE.

With Two Friction Drums (also made with One Drum).

Seven Sizes—from 8 to 50 Horse Power.

Patented)



Cut 375.

POWER REVOLVING DERRICKS.

This Engine and Platform can be connected to any Derrick, old or new, masts being wood or otherwise.

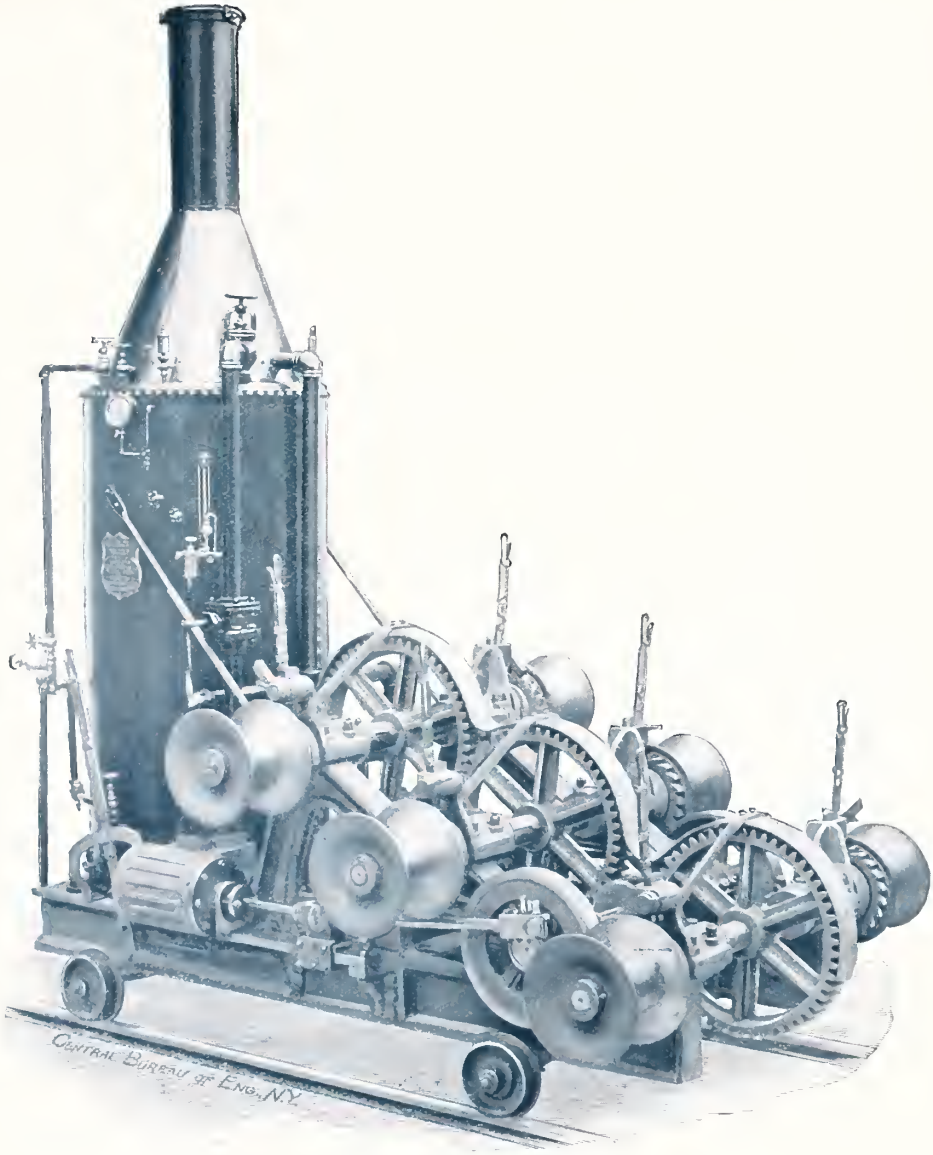
The Engine illustrated takes steam through a pipe passing up through the center pivot, one boiler supplying steam to several derricks.

A Boiler can be mounted on the above Engine, making each Derrick an Independent and Complete Outfit.

This is the Latest and Most Complete Power Arrangement yet devised for a Derrick.

We have three Patents on the above and others are pending.

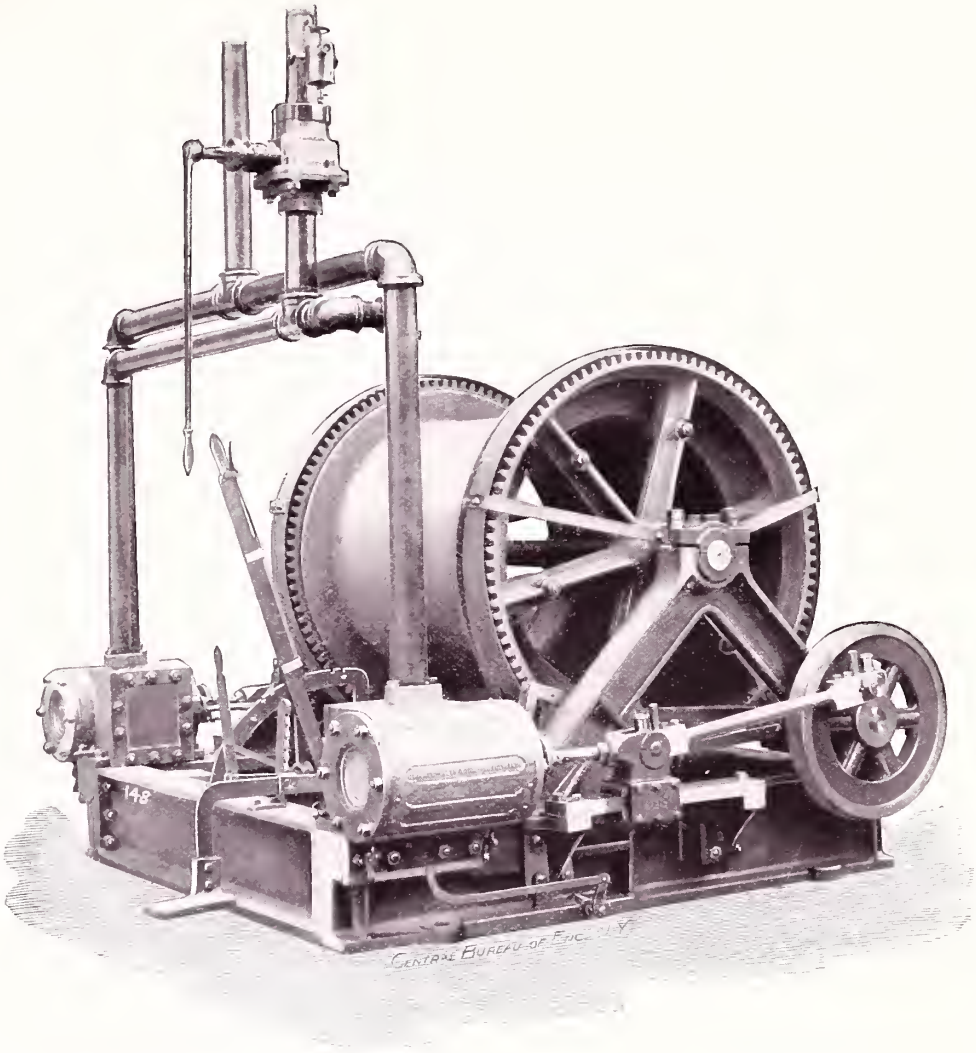
(Send for Our Large Catalogue.)



Cut 389.

BRIDGE BUILDER'S ENGINE.

(Send for Our Large Catalogue.)



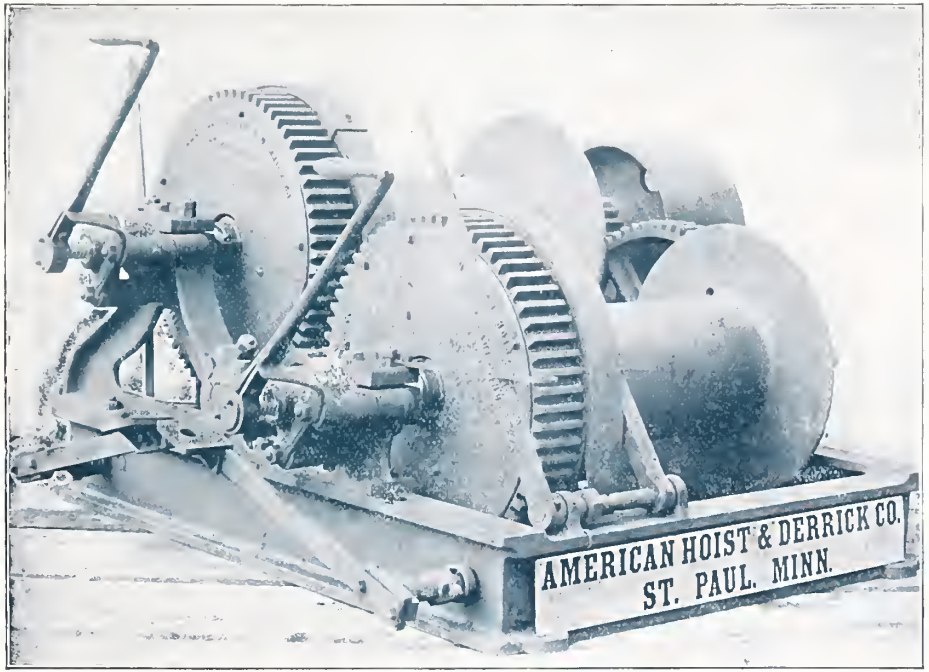
Cut 385.

MINING HOIST OR HAULING ENGINE.

With Single or Double Drums.

We make 15 Sizes and Styles.

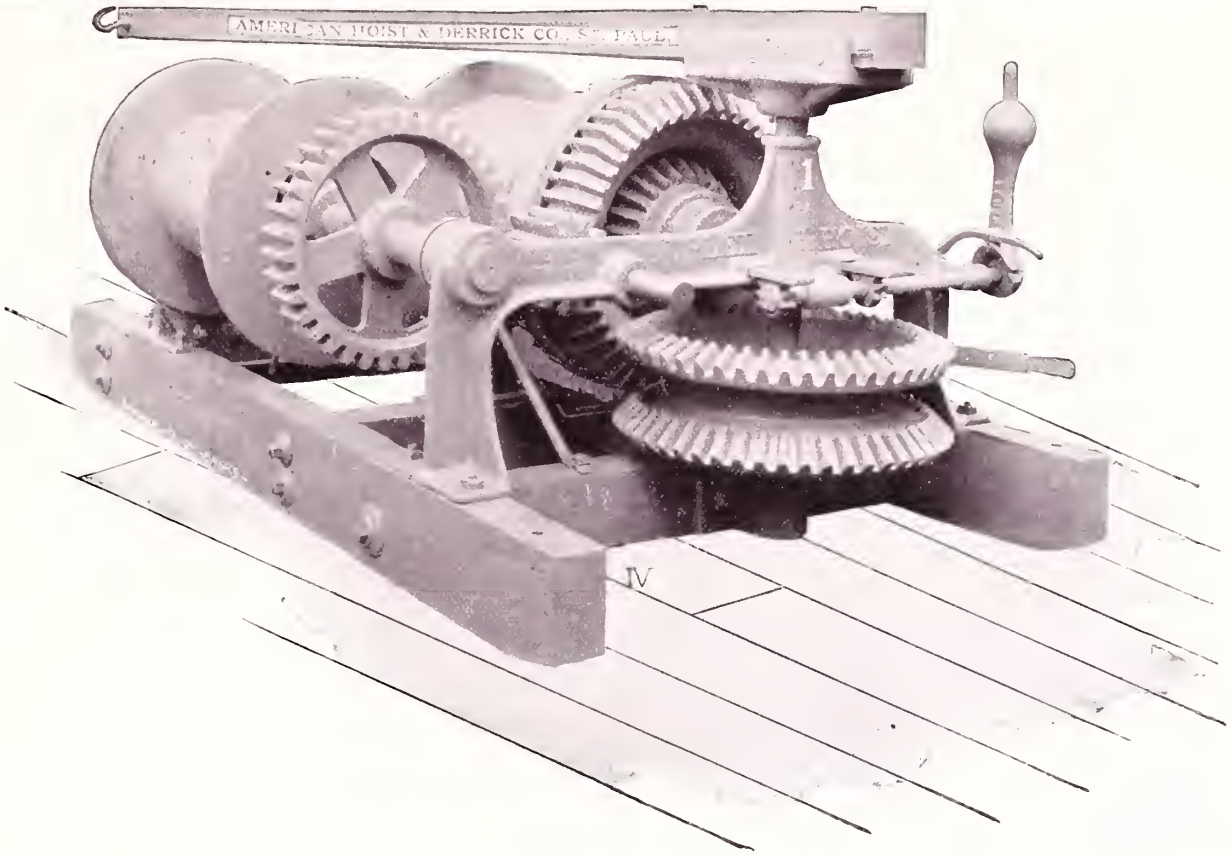
(Send for Our Large Catalogue.)



Cut 355.

DOUBLE FRICTION DRUM BELT HOIST.

Patented.

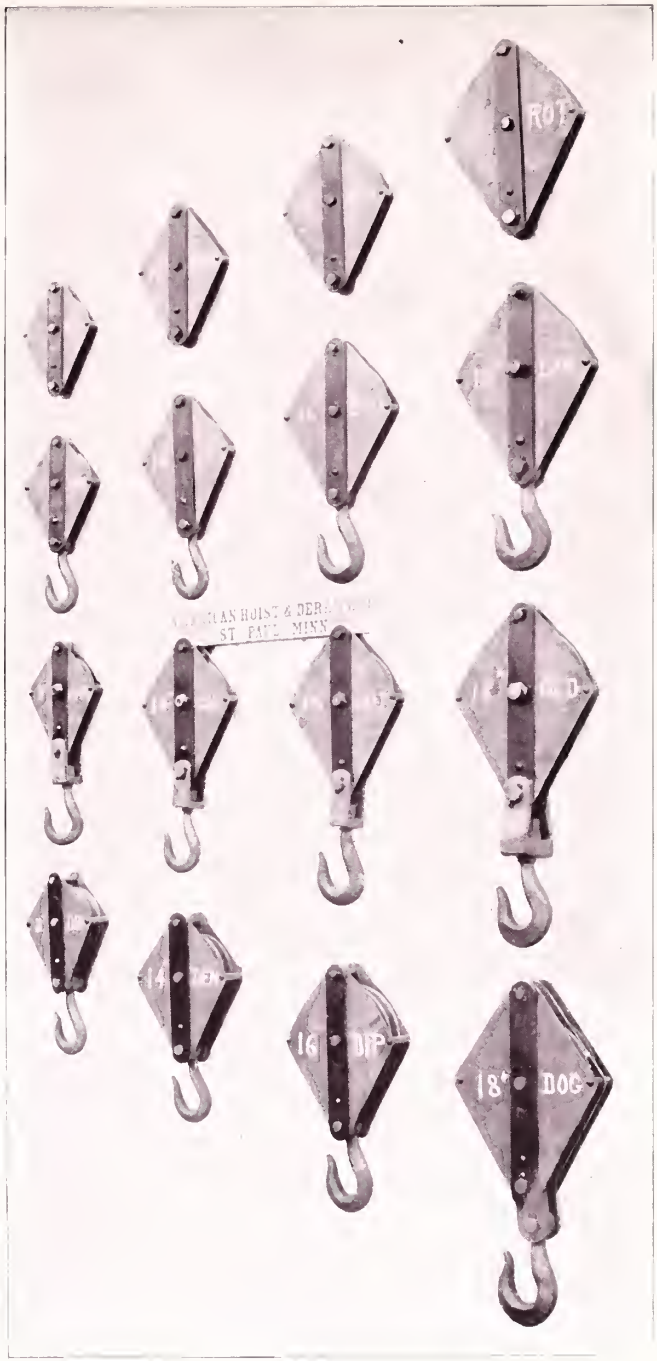


Cut 105.

DOUBLE DRUM HORSE POWER NO. 1.

Patented.

We have also Three Styles of Single Drum Horse Power.
(Send for Our Large Catalogue.)

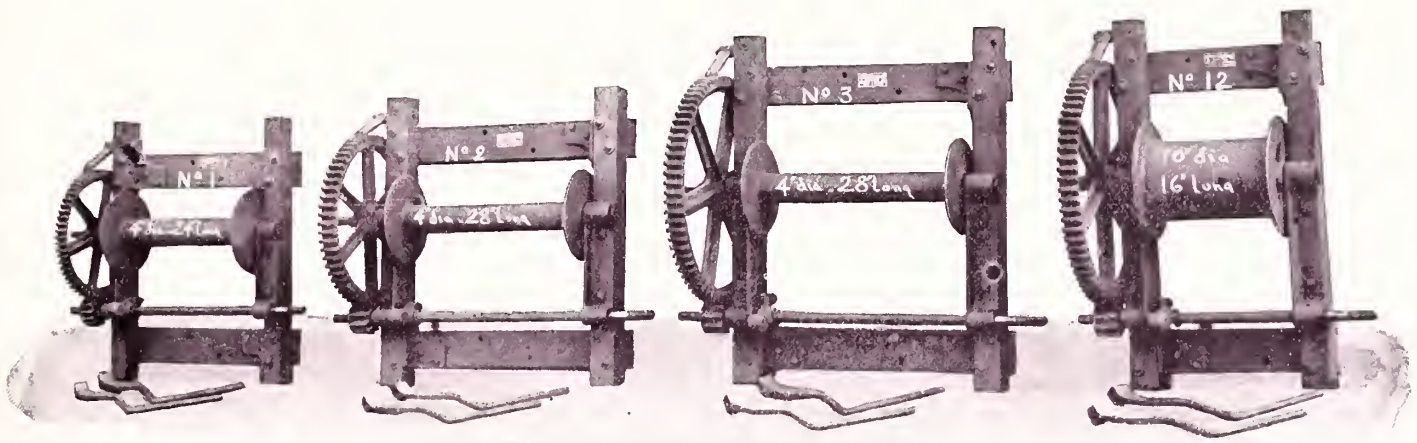


Cut 377.

HEAVY WIRE ROPE BLOCKS.

STRONGEST. MOST DURABLE. CHEAPEST IN THE END.

The name on the block is the ordering cipher. The figures give the diameter of the Sheaves.



Cut 376.

HAND POWER CRABS

Nos. 1, 2 and 3 are for Manilla Rope. No. 12 is for Wire Rope, having a Large Drum.

We also make Double Drum Crabs. In all, thirteen sizes and styles.

Contractor's and Quarrymen's Sketch Book.