

SCIENTIFIC AMERICAN

[Entered at the Post Office of New York, N. Y., as Second Class Matter.]

A WEEKLY JOURNAL OF PRACTICAL INFORMATION, ART, SCIENCE, MECHANICS, CHEMISTRY AND MANUFACTURES.

Vol. XLVI.—No. 15.
[NEW SERIES.]

NEW YORK, APRIL 15, 1882.

\$3.20 per Annum.
[POSTAGE PREPAID.]

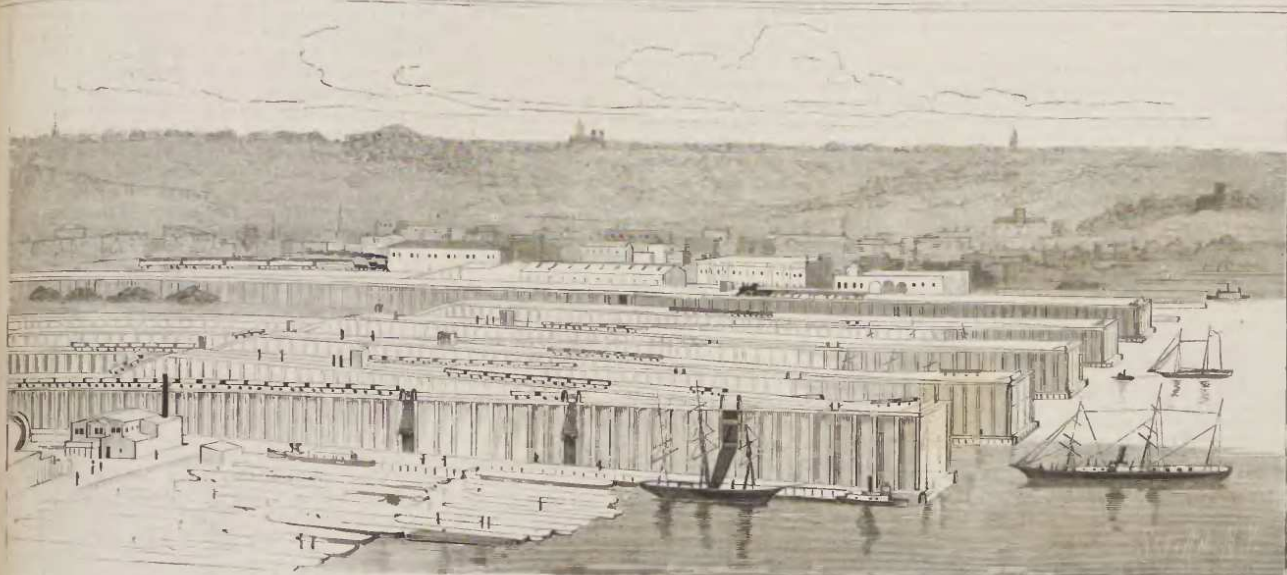


Fig. 1.—BIRD'S EYE VIEW OF COAL PIERS AND DOCKS HOBOKEN.

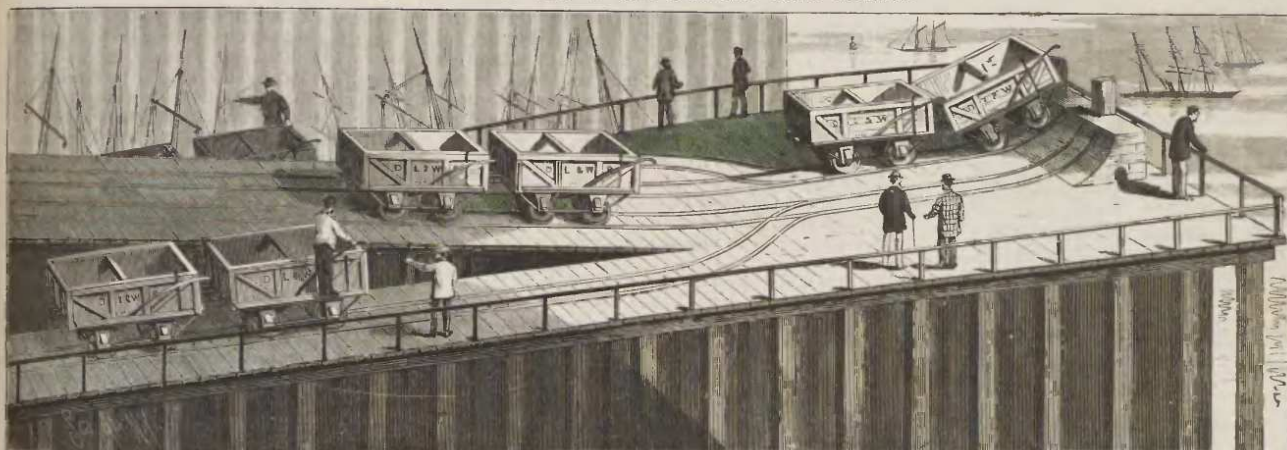


Fig. 7.—RETURN SWITCH, RIVER END OF THE PIER.

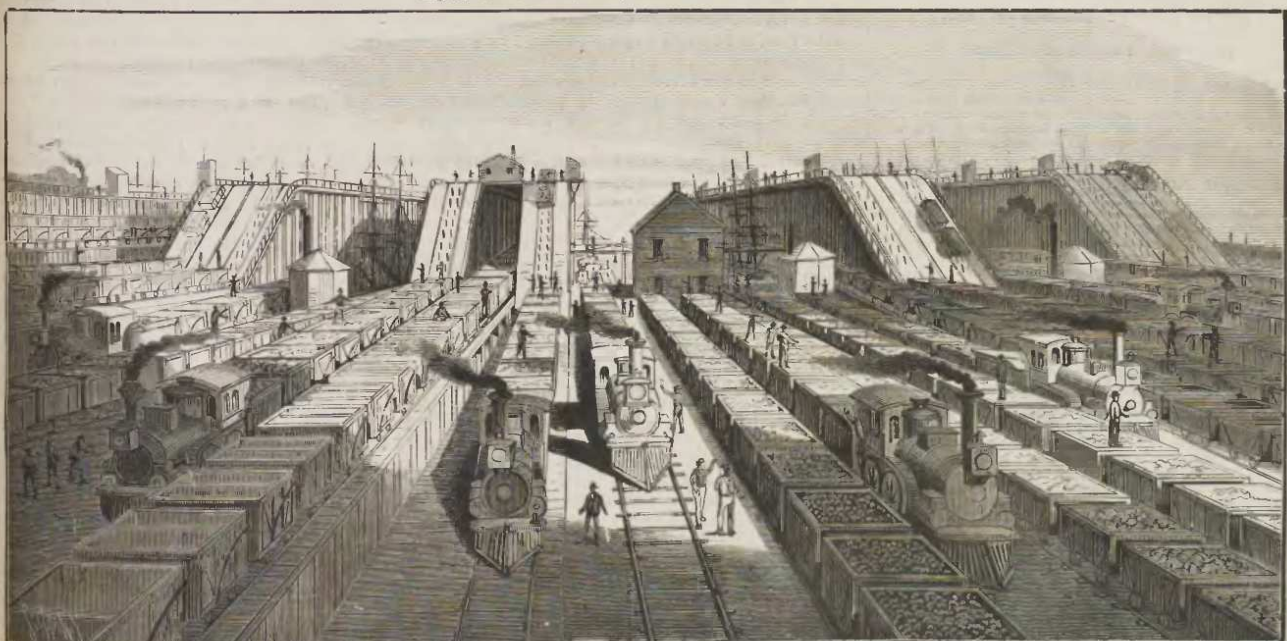


Fig. 2.—VIEW OF TRACKS, INCLINES, AND PIERS, FROM SHORE SIDE.

THE GRAVITY COAL PIERS OF THE DELAWARE, LACKAWANNA & WESTERN RAILROAD CO., HOBOKEN, N. J.