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SCIENCE NEWS LETTER

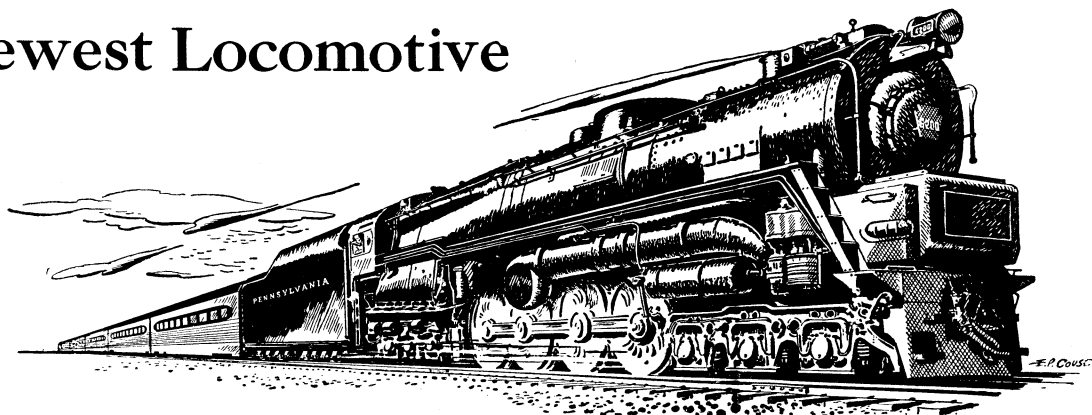
THE WEEKLY SUMMARY OF CURRENT SCIENCE • MARCH 10, 1945



Light for the Future
See Page 150

A SCIENCE SERVICE PUBLICATION

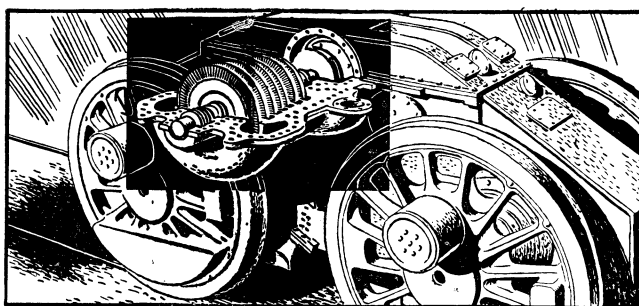
This Newest Locomotive



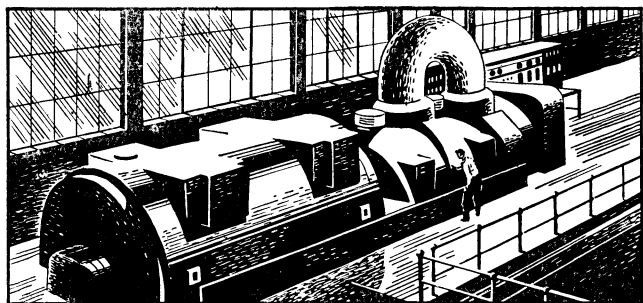
is Powered Like a Battleship



LONG AGO successfully developed by Westinghouse for ocean vessels, the *steam turbine* has now been harnessed as a brand new type of smooth, efficient motive power for modern railroad locomotives.



THE WESTINGHOUSE steam turbine in the Pennsylvania Railroad's new direct-drive locomotive is *no bigger* than a household electric refrigerator—yet it will haul long passenger trains with ease.



THE POWER-PACKED locomotive turbine is a descendant of giant Westinghouse turbines which generate much of the electricity used today. The great expansion of electric power began with these turbines.



THE VELVETY FLOW of power from this 6,900 horsepower *steam turbine* locomotive will make trains run with extra smoothness and is a major contribution to finer transportation for the future.

THE RAILROADS are developing a dazzling new kind of transportation for the future. The latest and most dramatic improvement is *steam turbine* power, which gives the Iron Horse "new lungs."

To help produce this new locomotive, the Pennsylvania Railroad, a long-time pioneer in transportation improvements, turned to Westinghouse and the Baldwin Locomotive Works. Working as a team, these companies have produced this latest in a great line of

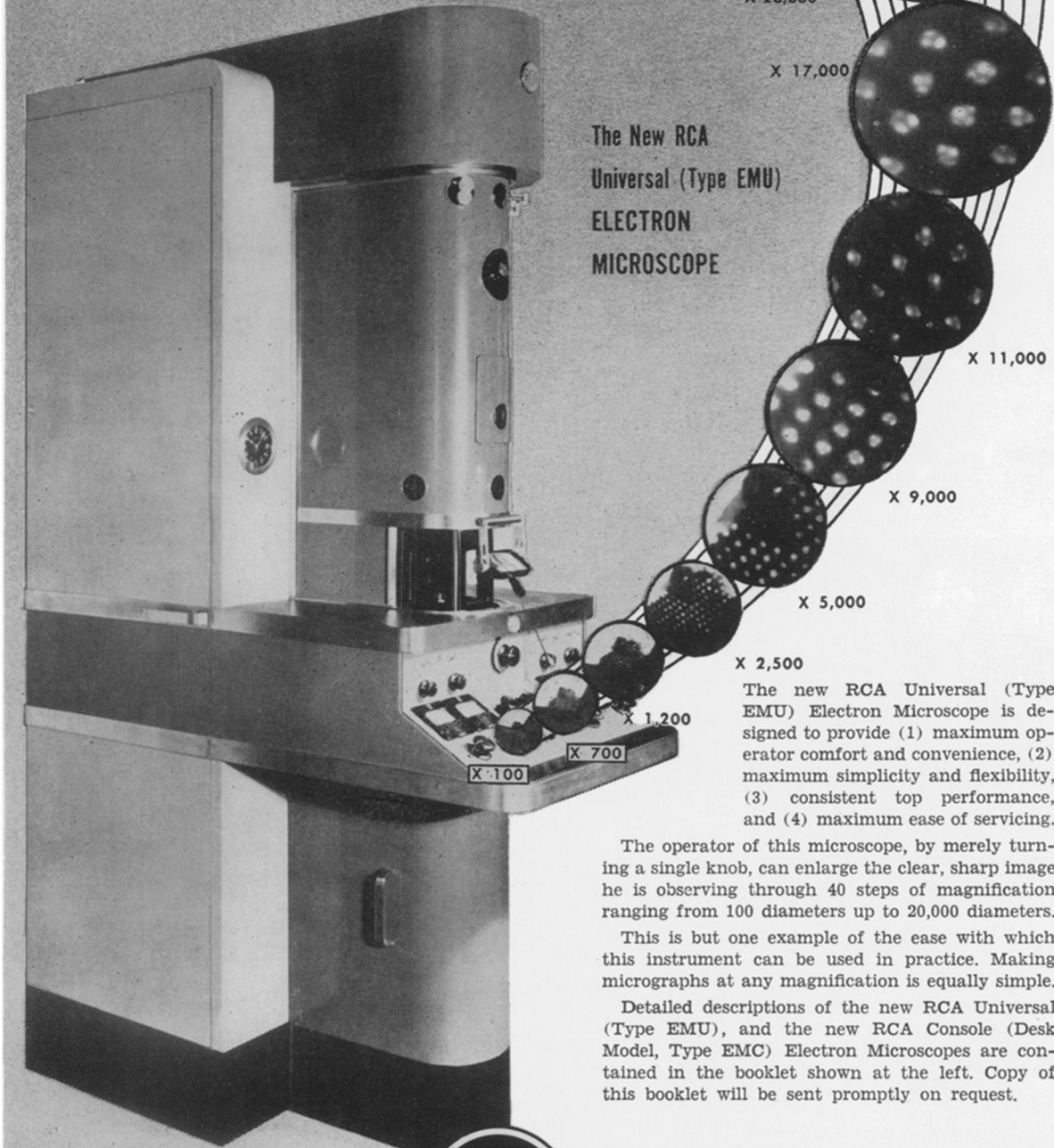
steam locomotives—descended from "Old Ironsides," built by Matthias Baldwin in 1832. *Westinghouse Electric & Manufacturing Company, Pittsburgh 30, Pennsylvania.*

Westinghouse
PLANTS IN 25 CITIES OFFICES EVERYWHERE

Westinghouse presents: JOHN CHARLES THOMAS—Sunday 2:30 pm, EWT, NBC

MAGNIFICATIONS of 100 to 20,000 DIAMETERS

by a twist of a knob



The New RCA
Universal (Type EMU)
ELECTRON
MICROSCOPE

X 20,000

X 17,000

X 11,000

X 9,000

X 5,000

X 2,500

X 1,200

X 700

X 100

The new RCA Universal (Type EMU) Electron Microscope is designed to provide (1) maximum operator comfort and convenience, (2) maximum simplicity and flexibility, (3) consistent top performance, and (4) maximum ease of servicing.

The operator of this microscope, by merely turning a single knob, can enlarge the clear, sharp image he is observing through 40 steps of magnification ranging from 100 diameters up to 20,000 diameters.

This is but one example of the ease with which this instrument can be used in practice. Making micrographs at any magnification is equally simple.

Detailed descriptions of the new RCA Universal (Type EMU), and the new RCA Console (Desk Model, Type EMC) Electron Microscopes are contained in the booklet shown at the left. Copy of this booklet will be sent promptly on request.



The new RCA Type EMU Universal Model RCA Electron Microscope, also the new RCA Type EMC-1 Console (Desk Model) Electron Microscope, are described and illustrated in this new RCA Bulletin. Copy sent promptly on request.



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