

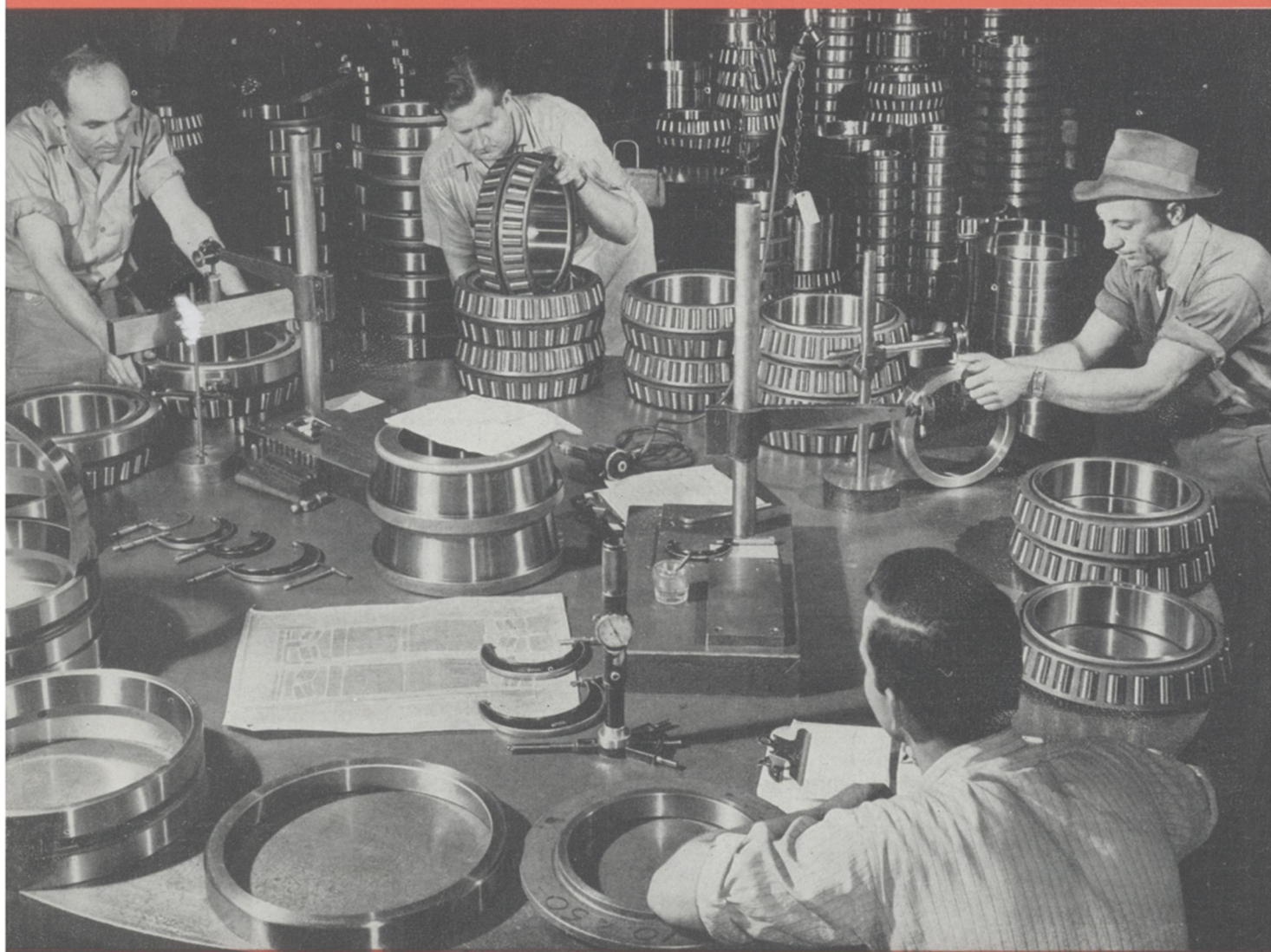
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SCIENCE NEWS LETTER

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THE WEEKLY SUMMARY OF CURRENT SCIENCE • DECEMBER 14, 1946



Working For Less Friction

See Page 378

A SCIENCE SERVICE PUBLICATION

1921

TWENTY-FIFTH ANNIVERSARY

1946



RADIO FREQUENCY HEATING

gives you heat where you want it... as you want it

For many years, man has used *external heat* to harden, braze, solder, or anneal metals—to condition or otherwise treat such substances as rubber, textile fibers and the gluing of wood.

Now, through Electronic Radio Frequency Heating, science has achieved the modern miracle of *heating without heat!*

The outstanding feature of *Induction Heating* of metallic substances...and *Dielectric Heating* of nonmetallic substances...is the generation of heat *within the material itself* and at temperatures higher than ever before obtainable. Frequencies used range

from 200 kilocycles to 50 megacycles.

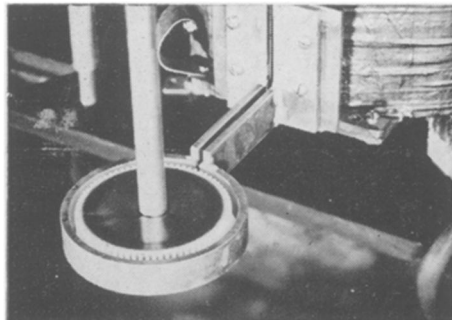
Induction and dielectric heating have accomplished wonders in reducing production time and cost...controlling the rate and range of heating...improving quality and appearance of the product.

If you are interested in using this new production tool in your business, send for booklet B-3620—or arrange for a showing of our new sound motion picture in full color: "Radio Frequency Heating."

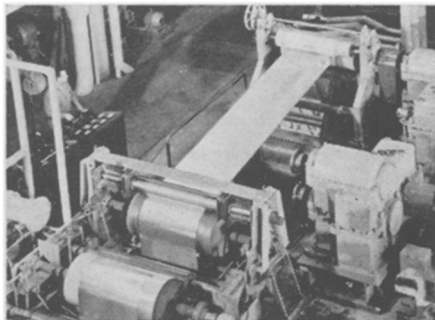
Westinghouse

PLANTS IN 25 CITIES OFFICES EVERYWHERE

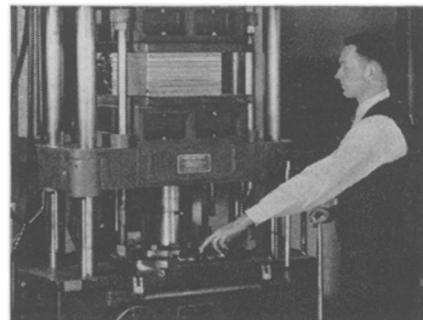
Tune in: TED MALONE — Monday, Wednesday, Friday, 11:45 A.M. EST, American Network



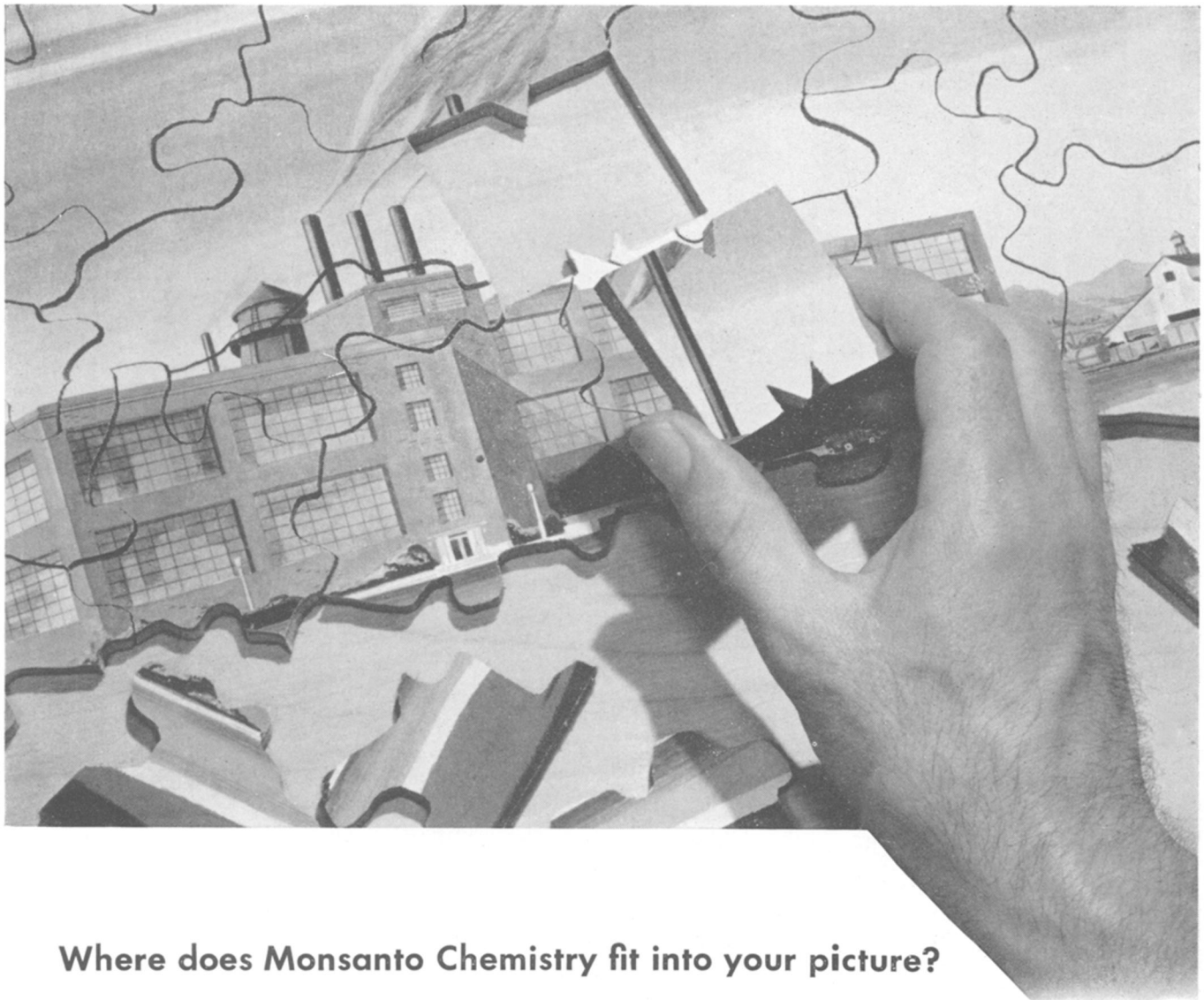
INDUCTION HEATING is ideal for hardening of gears (see above), contour hardening, brazing, soft soldering and annealing.



DURING THE WAR Westinghouse research engineers pioneered induction heating equipment for *reflowing tin* on electrolytic tin plate. Result *one* pound of tin now does the work of *three*.



DIELECTRIC HEATING has many advantages over conventional heating in bonding plywood (see above), molding plastic preforms, textile processing—and curing plastic laminates rubber, etc.



Where does Monsanto Chemistry fit into your picture?

Specific answers to this headline question depend largely on your interest in any of the 43 industry classifications listed at the right. In general, however, you will get a fair indication of how Monsanto chemistry can fit into *your* picture, by knowing that these 43 key industries are served by nearly 600 Monsanto Chemicals and Plastics.

To the automotive industry, for instance, Monsanto supplies 51 products; in the field of aviation, 35 products; dyestuffs, 68 products; leather, 32 products; textiles, 50 products; paint, varnish and lacquer, 37 products—and so on.

Consult this list of major industries served by Monsanto. Whether or not you are identified with any of them, you are invited to contact the nearest Monsanto Office for suggestions that apply to your problems.

Ask questions about improvements in your products, production or sales. Any questions. Naturally, the more detailed they are, the more effective the answers.

MONSANTO CHEMICAL COMPANY, St. Louis 4
District Offices: New York, Chicago, Boston, Detroit, Cincinnati, Charlotte, Birmingham, Los Angeles, San Francisco, Seattle, Montreal, Toronto.



Look where Monsanto Serves in Production, Products, Sales

Agriculture	Lumber
Appliances	Machinery
Automotive	Marine
Aviation	Metals
Beverages	Mining
Carpets, Rugs	Packaging
Ceramics	Paint, Varnish, Lacquer
Chemical Processing	Petroleum
Construction	Pharmaceutical
Cosmetics, Perfumes	Pulp, Paper
Dairying	Photographic
Dental	Plastics
Dyeing	Power
Electrical	Printing Ink
Engraving	Radio
Floral, Fruit	Rayon
Foods	Refrigeration
Glass	Rubber
Insecticides	Soap
Jewelry	Textiles
Laundering	Water, Sewage
Leathers, Tanning	