



Photo courtesy of the Crown Cork & Seal Company

The best news about tin since we went to war

WHEN the Japs overran Malaya and the East Indies, they thought they had dealt a staggering blow to America.

For, overnight, tin became a most critical raw material, because America relies upon this bright metal for tin plate, bearing alloys, solder, collapsible tubes . . . *but mostly tin plate.*

However, Uncle Sam had an ace in the hole . . . electrolytic tin plate. In this process tin is deposited electrolytically on steel strip. And only one third the tin used in the old hot-dipped process is required.

Unfortunately, electrolytic tin plate is far from perfect as it comes from the plating baths. It is porous and does not provide a good protective coating.

Right here Westinghouse stepped into the picture.
Engineers in the Westinghouse Research Labora-

tories decided that the porous tin coating could be *fused* . . . through the magic of electronics . . . to give the tin plate the desired protective coating.

These scientists built a high-frequency coil, using radio broadcasting oscillator tubes for their power source. Through this coil they passed electrolytic tin plate. The inductive heating effect melted the tin coating . . . refining it and giving it the necessary corrosion-resistant properties.

The new Westinghouse tin flowing process is now in actual use, turning out gleaming ribbons of tin plate at better than 500 feet per minute. It will help save thousands of tons of tin every year.

Another example of *electronics at work* . . . through Westinghouse "know how"!

Westinghouse Electric & Manufacturing Company, Pittsburgh, Pennsylvania.

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