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SCIENCE NEWS LETTER

®

THE WEEKLY SUMMARY OF CURRENT SCIENCE



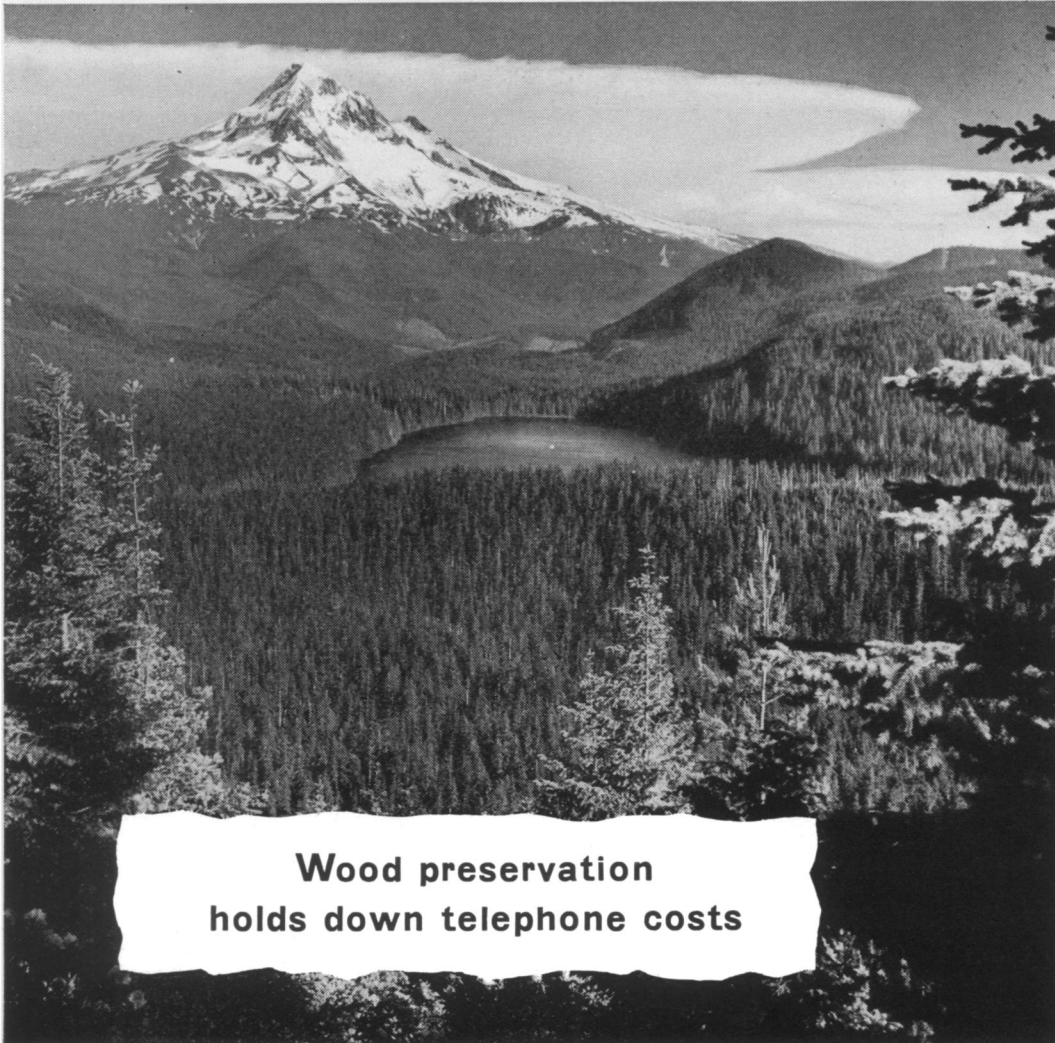
Volcanoes at Work

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Wood preservation holds down telephone costs

Poles are a substantial part of the plant that serves your telephone; making them last longer keeps down repairs and renewals that are part of telephone costs. So Bell Laboratories have long been active in the attack on wood-destroying fungi, the worst enemies of telephone poles.

Better, cleaner creosotes and other preservatives have been developed in co-operation with the wood-preserving industry. Research is now being carried out on greensalt — a new, clean, odorless preservative. Even the products of atomic energy research, radioactive isotopes, are used to measure penetration of fluids into wood.

Treated poles last from three to five times as long as untreated poles. This has saved enough timber during the last quarter century to equal

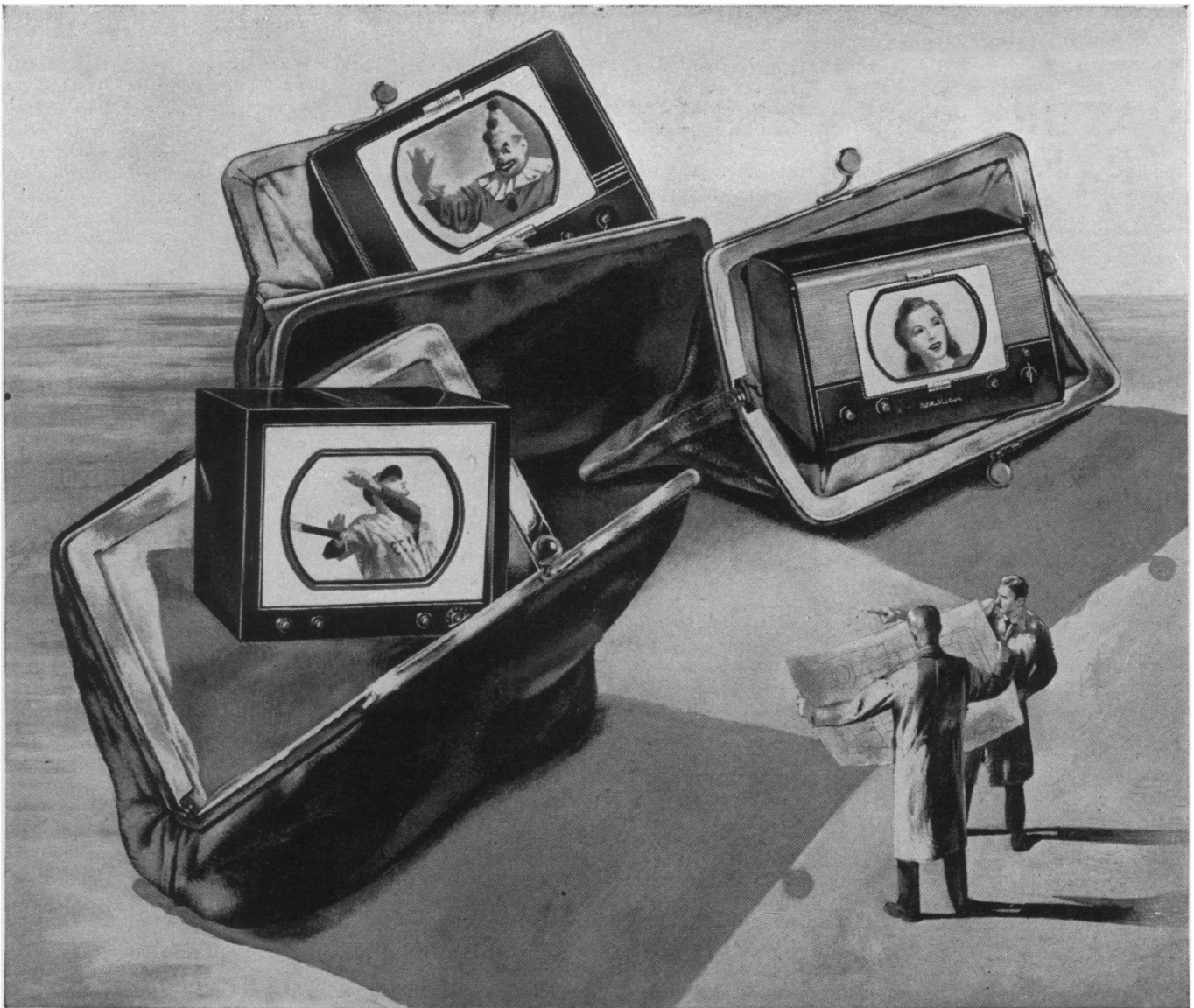
a forest of 25,000,000 trees. More than that, wood preservation permits the use of cheaper, fast-growing timber instead of scarcer varieties.

This and other savings in pole-line costs, such as stronger wires which need fewer poles, are some of the reasons why America's high-quality telephone service can be given at so reasonable a cost. It is one of today's best bargains.

**BELL TELEPHONE
LABORATORIES**



Exploring and Inventing, Devising and Perfecting, for Continued Improvements and Economies in Telephone Service.



Developments by RCA scientists have made Television part of family life in homes of all incomes.

How research fits television into more purses

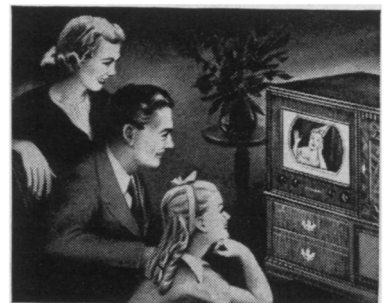
Remember when television was “just around the corner,” and guesses at receiver cost ranged to thousands of dollars? Came *reality*, and pessimists were wrong. Home television sets were reasonable, grew more so year by year.

One factor has been research at RCA Laboratories. For example: In 1949, RCA scientists perfected the glass-and-metal picture tube—so adaptable to mass production that savings of 30% in tube cost were made. Again, these scientists and development engineers learned how to replace complex

parts with less costly, and more efficient materials. A third contribution was the use of versatile *multiple-purpose* tubes—so that one could do the work of several!

Most important, the savings effected by RCA scientists have been quickly passed on to you, the consumer. RCA Laboratories is known as a great center of radio, television, and electronic research. It is indeed an institution which fits RCA products into more purses!

See the latest in radio, television, and electronics at RCA Exhibition Hall, 36 W. 49th St., N. Y. Admission is free. Radio Corporation of America, RCA Building, Radio City, N. Y.



New RCA Victor 16-inch television receiver, a leader in the 1950 line.



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