

AUGUST 5, 1950 SCIENCE NEWS LETTER



THE WEEKLY SUMMARY OF CURRENT SCIENCE

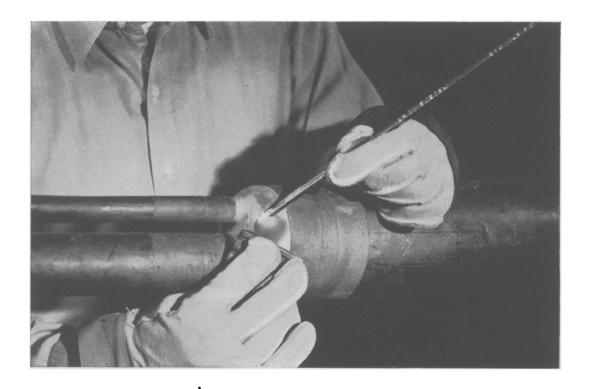


Atoms in Industry See Page 91

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He seals out trouble...

TO KEEP THE COST
OF YOUR TELEPHONE
SERVICE DOWN

To make cable joints tight and strong, splicers formerly used lots of solder. Then, Bell Telephone Laboratories developed a new technique for making better joints with much less solder. This saves one million pounds of solder a year — helps keep the price of your telephone service low.

Two kinds of solder are now used. One makes the splice strong; the other seals it. First, the splicer builds up a joint with a solder of lead and tin, which flows easily under his wiping cloth. To seal the joint, he applies a light coating of low-melting-point solder, composed of lead, tin and bismuth. On contact with the still hot joint, it flows into and seals every pore.

Cable-sealing solder is only one of 30 low-melting-point alloys which Bell metallurgists have developed for special uses — in fuse wires, for example, and in the solder connecting hair-like wires to piezoelectric crystals for electric wave filters.

Continuing research with a substance seemingly as commonplace as solder demonstrates again how Bell scientists help keep your telephone service the world's best.

BELL TELEPHONE LABORATORIES



WORKING CONTINUALLY TO KEEP YOUR TELEPHONE
 SERVICE BIG IN VALUE AND LOW IN COST