

New Developments

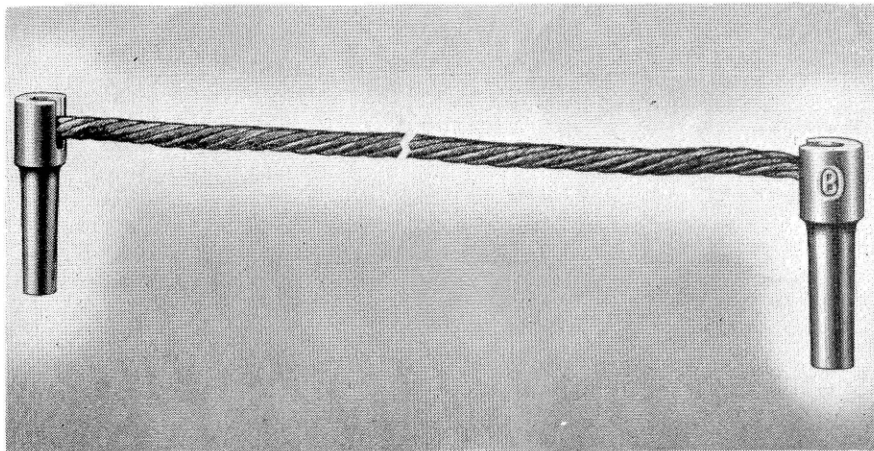
NEW RAIL-WEB BOND

THE Ohio Brass Company, Mansfield, Ohio, has announced a new rail-web type signal bond named the "O-B Spearhead." Using the A.A.R. taper pin as the contact medium, the new bond is designed

Please mention *Railway Signaling and Communications* when writing manufacturers.

The stranded body of the bond is made of hard-drawn bronze cable which can be ordered with 7 by 19-

straight piece with terminals in line with the strand. This feature offers a special advantage for under-joint bonding since the Spearhead can be threaded under the joint bar without disturbing it. After threading, the strand can be easily bent at right angles for driving the terminal.



Bond is designed for hammer driving into $\frac{3}{8}$ -in. drilled holes through the rail web

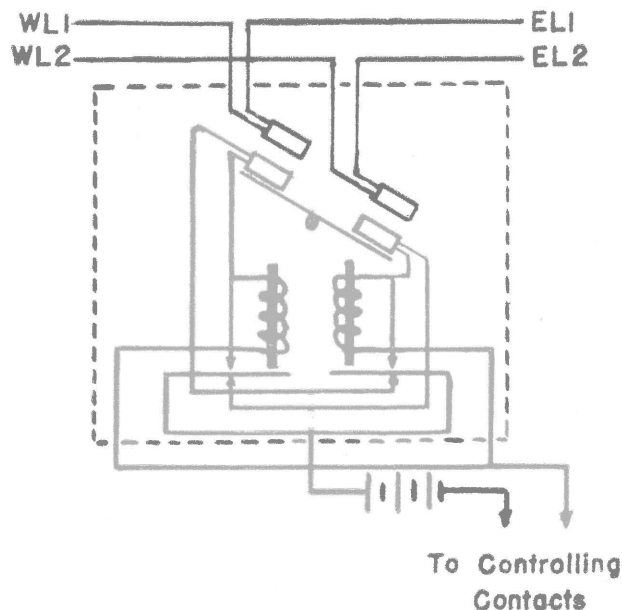
for hammer-driven installation in $\frac{3}{8}$ -in. drilled holes through the rail web. In manufacture, the pin is compressed around the bronze strand which extends all the way down to the small end of the taper. Thus, after installation, the bronze strand is actually through the rail web. No heat is involved in the manufacture, and there is no rigid connection to provide a single point of high-fatigue stress, according to the manufacturer.

strand or in a 19-wire concentric cable. Ohio Brass recommends the second form for outside-joint bonds or for special-work connections where additional stiffness is desirable. Electrical resistance of the 7 by 19-strand is .000,040 ohm per inch, while the concentric cable is .000,029 ohm per inch. Besides its excellent electrical characteristics, the bronze cable has long fatigue life and high resistance to corrosion. The Spearhead is delivered in a

T. & T. REMOTE TESTING AND PATCHING SWITCH

A new switch that should prove of interest to railway communications departments is now being introduced, according to a recent announcement by the Gore Company, 522 E. & C. Building, Denver, Colo. It will enable the opening of wire pairs for test, cutting off and on branch-line telephones, and switching preferential pairs—all done remotely.

There has been a trend toward closing intermediate offices, with the resultant problem of how to test and patch wire lines at these points. This new type switch will satisfy any desired testing or patching requirements remotely. The switch incorporates many new and unique ideas, among which are mercury switches introduced directly into the line, with a contact resistance of less than one 1/100 ohm; elimination of all arcing or exposed contacts; and elimination of any relay adjustment or maintenance. Circuit applications and further information on the switch are available from the company.



Right — Remote testing and patching switch. Left — Circuits of the switch

