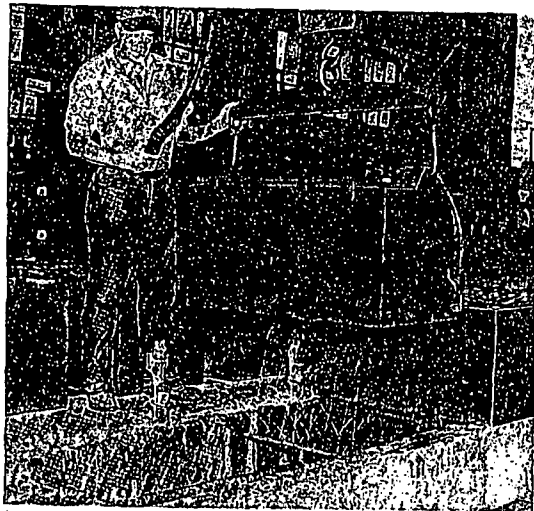


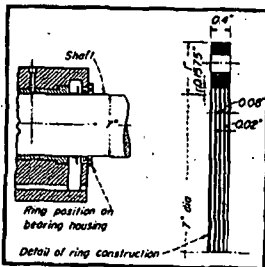


Water-Cooled Battery Charging Speeds Process

ENGINEERS of the Reynolds Alloy Co., Listerhill, Ala., faced with reduction of industrial truck availability caused by round-the-clock operation, devised a system for cooling storage batteries while on charge. This allows fast charging and keeping trucks in operation for three shifts on only two sets of batteries per truck. In addition it eliminates need for a third set of batteries this system prolongs battery life by preventing the excessive temperature that is developed by accelerated charging.

The charging racks are long concrete pits with individual spray pipes installed under each charging position. Batteries taken directly from trucks are placed over the pits for recharge and immediately receive the cooling effects of the spray.

The charging station, accommodating 54 batteries, also features an air-water nozzle for cleaning and drying the batteries as well as a vat for repainting them.



Grooved Ring Stops Oil Leakage Along Shaft

WHEN BEARINGS are lubricated under pressure it sometimes proves difficult to stop oil leaking out along the shaft. Cotton or felt packing usually proves ineffective. A ring with grooves running contrary to direction of shaft rotation, mounted as shown, will stop all leakage while the shaft turns. This has proved effective even with vibrating shafts. The ring sketched has screw-shaped threads with a double pitch. These grooves cause oil backflow that stops leakage.

D. WISSMAN

Suriname, Dutch Guiana

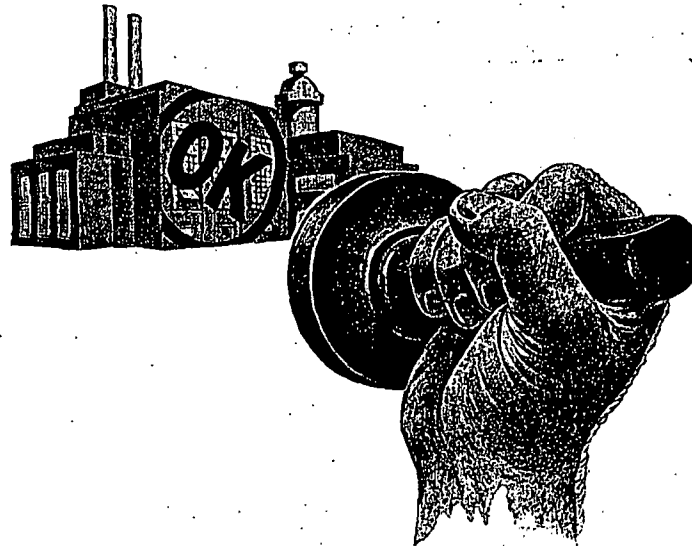
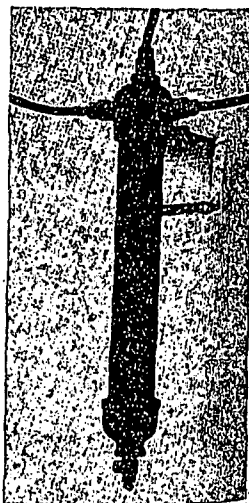
SEDIMENT TRAP IMPROVES PERFORMANCE OF REGULATING AND RECORDING INSTRUMENTS

INSTALLATION of a sediment trap in the line between high-pressure gas main and regulating and recording instruments not only reduced down time of the instruments but also eliminated slugging of condensate with consequent inaccuracies in the control-device functioning.

Trap was made of a 10-in.-long section of 2-in. pipe fitted with 2 to 1/4 in. reducers at each end. Reducer at the bottom carried a petcock for cleanout purposes, while the upper reducer was equipped with two side inlets, also 1/4-in. pipe size. The top top from line pressure carries the lead down to about midway of the body. The side tops lead to the instruments and control devices.

Temperature changes and occasional bleeding of the instrument lines caused slight condensation in the trap. Collection was slow but enough to affect instrument accuracy eventually. Rust and hydrate crystals, collected during the winter, were periodically removed by blowing down through the petcock at the bottom.

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