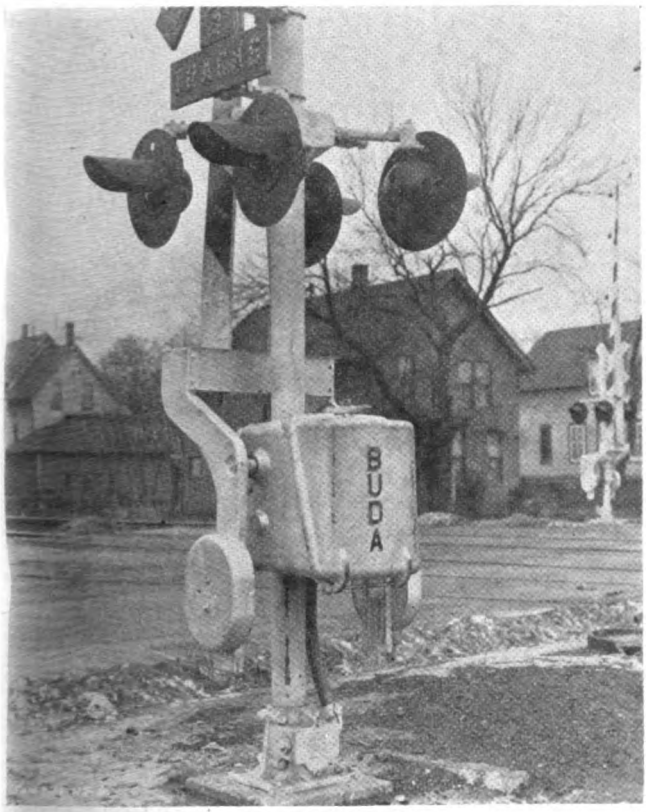
NEW DEVICES

Crossing Gate

THE Buda Company, Harvey, Ill., announces the development of a new electrically-operated crossing gate known as the Model-71, which, according to this manufacturer, has been especially designed to meet the requirements



Buda electrically-operated crossing gate

of the Association of American Railroads as well as state highway departments.

This new gate mechanism is enclosed in a cast-iron weatherproof case, which is arranged for mounting on a pipe mast of any standard size, such as 4 in., 5 in. or 6 in. This gate can be controlled automatically by track circuits or can be controlled manually. The mechanism features a specially engineered motor which is said to have ample power to operate gate arms up to 50 ft. in length. The standard equipment includes a 12 to 18-volt d.c. motor for operation from batteries. If specified, an a.c. motor can be furnished. The motor operates from battery to raise the gate arm and hold it in the raised position. When released, the motor, acting as a generator, serves as a brake to regulate the lowering of the gate by the force of gravity. However, if due to unusual weather conditions, such as very strong winds, the force of gravity is not adequate to lower the gate, the motor will drive the gate down.

The electrical contacts in the mechanism are of the quick make-and-break type. By means of one simple adjustment, the gate may be set to operate the arm to 90 deg., 80 deg., or 70 deg., without individual adjustment of the circuit controllers for timing. The mechanism is readily accessible for servicing—the complete transmission, motor and switch assembly can be removed from the case as one assembly unit. The hinge cover of the case swings out of the way to allow access to the mechanism for oiling or adjustment. A special feature is that the oiling system is designed to prevent any back flow or dripping of surplus oil on the electrical contacts or motor.

One of these Model-71 crossing gate mechanisms has been in continuous operation in an outdoor test installation at the factory for more than two years. During this time the gate operated more than 825,000 raising and lowering operations, no repairs or adjustments being required.

Railway Radio Entertainment System

THE Collins Radio Company, Cedar Rapids, Iowa, has announced its railway radio entertainment system, featuring the 58A railway broadcast receiver, for providing entertainment on passenger trains. The 58A is a crystal controlled broadcast-band receiver around which the entertainment system is built. This integrated system, shown in the accompanying diagram, consists of a low-impedance, low-noise level Amphenol antenna; the 58A receiver; a magnetic wire record player; a number of low-level, high-fidelity, amplifier-speaker boxes designed

Railway receiver master control box