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October 1929.

MEMBER OF ENGINEERING COLLEGE MAGAZINES ASSOCIATED
The new C-E Single-Seam Box-Header Boiler is a distinct advance in construction and design over ordinary box header practice.

In the new design—

The wrapper or butt strap joining the tube and hand hole sheets is—ELIMINATED.

ONE ROW OF RIVETS JOINS THE TUBE SHEET DIRECTLY TO THE HAND HOLE SHEET.

The row of rivets on the tube side of the wrapper strap is—ELIMINATED.

THERE IS ONLY ONE CAULKING EDGE and this faces the outside—making inspection easy and removing all rivets out of the hot gas and fire zones.

Three thicknesses of metal at the caulking joint at the ears are—REDUCED TO TWO THICKNESSES.

This new design provides an unusual factor of safety. For instance, in the standard unit sold for 160 lb. to 250 lb. working pressure, the header joint is adequate for a working pressure of 450 lb.

A careful inspection of this new boiler will convince you that the C-E Box-Header Boiler is a better Box-Header Boiler.
The World's Tallest Building

The new Chrysler Building in New York will be the tallest building in the world. It will be equipped with thirty Otis Signal Control Elevators.

Here is additional evidence in support of the statement that "most of the world's famous buildings are Otis-equipped."

The world's first safe elevator was an Otis—and today the marvelous Signal Control elevator is an exclusive Otis development.

OTIS ELEVATOR COMPANY
OFFICES IN ALL PRINCIPAL CITIES OF THE WORLD

OCTOBER, 1929
For twenty years this Koehring Heavy Duty mixer has been turning out Dominant Strength Concrete for the manufacture of blocks. For twenty years the phrase, “Koehring Heavy Duty,” has been exemplified in steady performance.

Even for a stationary mixer, it is an unusually long operating life—but that is Heavy Duty construction, designed and built to meet rigid specifications. Rugged in every detail to meet the requirements of continuous operation in the manufacture of concrete!

To the same degree Koehring Heavy Duty pavers, gasoline shovels, pull shovels, cranes and draglines are built for long, dependable service in their respective fields. Every Koehring product sets the pace in performance standards.

Over the world, wherever new highways or building projects are in progress, Koehring Heavy Duty equipment means dependability in performance. The engineer-contractor knows the value of steady operating equipment, of work completed on time.

Koehring Heavy Duty for maximum service over a period of years!

KOEHRRING COMPANY
MILWAUKEE, WISCONSIN
Manufacturers of
Pavers, Mixers—Gasoline Shovels, Pull Shovels, Cranes and Draglines

The revised edition of "Concrete — Its Manufacture and Use," a complete treatise and handbook on present methods of preparing and handling portland cement concrete, is now ready for distribution. To engineering students, faculty members and others interested we shall gladly send a copy on request.
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OCTOBER, 1929
WHAT YOUNGER COLLEGE MEN ARE DOING WITH WESTINGHOUSE

The radio that's heard at the bottom of the world

Six months of night did not mean dreary isolation for Commander Byrd's hand-picked band of Antarctic explorers. Fortnightly the Westinghouse short-wave radio station in East Pittsburgh sent them programs of music and cheer and word from their families. Between scheduled programs it lent a helping hand in sending down interesting bits of news, relaying messages for other stations that couldn't get through, and even completing connections between the "Eleanor Bolling" and Byrd's Base Station when they did not hear each other.

Spectacular feats have been achieved by the Westinghouse men working on short-wave radio research, in reception as well as sending. An average of five nights a week they bring in S W of Chelmsford, England, and re-broadcast to America the midnight chimes of Big Ben. Strange voices from Holland, Australia and far off Java and the Fiji Islands register on their receivers quite as faithfully as a station a thousand miles distant comes in on the average set. Many stations in remote corners of the world depend on their broadcasts for entertainment and up-to-the-minute news.

Young college men figure prominently in the exploration for new possibilities in radio communication. Their field is rich in opportunity—their facilities are the finest that modern science affords.