

POWERFAX

A magazine of information for engineers and operators of steam and electric power plants, devoted mostly to the field covered by power equipment as manufactured by Elliott Company and its associates, The Lagonda Manufacturing Company, and Liberty Manufacturing Company.

★ The picture on the front cover shows a night view of Pittsburgh's Golden Triangle with its skyscrapers and bridges illuminated for the celebration of Light's Golden Jubilee during the week of October 21, 1931, in commemoration of the 50th Anniversary of the incandescent lamp, invented by Thomas A. Edison. The Golden Triangle, bounded by the Allegheny and Monongahela Rivers, where they unite to form the Ohio, derives its name from the concentration of industrial and financial resources within its borders, but during this celebration it was literally transformed into a golden fairland by the liberal use of flood lights and festoons of incandescent lamps. The Liberty Bridge, shown prominently in the foreground, connects downtown Pittsburgh, via the Boulevard of the Allies, with the fashionable South Hills residential districts. The picture is a tribute to the electrical industry and the importance of light in our modern civilization.

NEW PUBLICATIONS

★ Bulletin A-6. Twin Strainers. A 24-page publication descriptive of the various types of Twin Strainers as built by Elliott Company for many years. Types covered include Twin Strainers for low- and high-pressure service, a compact unit for small space, a multiple-basket type with extra large straining area, motor-operated

units in the larger sizes; also Twin Oil Strainers and Single Strainers.

★ Bulletin X-14. Lagonda Cleaners for Locomotive Arch Tubes, delivery pipes, Nicholson syphons. A four-page publication illustrating typical cleaners for use in railway locomotives.

★ Bulletin X-15. Cleaning Tubes and Surfaces with Brushes. Another four-page folder containing a discussion of the many uses of various types of brushes with tube cleaner or electric motors.

INTELLECT IRRITATORS

★ Well, we didn't hear from so many solvers of the little puzzles printed in our last issue. Maybe they were too easy.

Of course we don't ask anybody to send us his solutions. The problems are submitted simply for the enjoyment of those readers to whom such things appeal. We offer no prizes, but we are always glad to hear from those interested.

Remember the problem where we asked you to make six four-letter words out of the letters of the alphabet, using no letter more than one time? It was reported that a professor who had given it in his classes in high school had found no one to supply a solution. But it isn't so tough. There are probably innumerable solutions. We list several of those on file:

Vest	Vest	Verb	Crag	Fact
Jynx	Lynx	Lynx	Styx	Jerk
Whip	Whip	Whig	Whiz	Whiz
Glad	Jamb	Jump	Jump	Jump
Buck	Duck	Sock	Knob	Dogs
From	Frog	Daft	Fled	Lynx

All of these solutions leave out the letter Q, and the other letter omitted is V or Z.

Thos. H. Gleave, Chief Engineer of

American Licorice Co., Chicago, in solving all the problems in the last issue, gave three solutions of the alphabet problem.

The December issue had hardly been out before our friend A. G. Rosenbaum, Chief Engineer of the Louisville Gas and Electric Company came in with solutions of all three problems.

Oh, yes, we've heard of some folks who had trouble with the little rhyme with the blank spaces to be filled in with five words composed of the same four letters in different sequence. For the benefit of those:

A vile old lady on evil bent
Put on her veil and away she went.
"Levi, my son," she was heard to say,
"What shall we do to live today?"

The following problem was given us by Mr. J. N. Eley, Consulting Engineer, of Atlanta, Ga. Given plan and front elevations as shown, draw the side elevation.



PLAN



FRONT

?

SIDE

In trying this problem out on one of our draftsmen, who incidentally solved it in a little different manner than the originator, he became so interested in this sort of problem that he fixed us up with a parallel problem involving different shapes, as follows:



PLAN



FRONT

?

SIDE

Try your hand at them.

And now, the following problem is submitted by Mr. Ford W. Harris, Attorney-at-law of Los Angeles, California:

A pole 100 ft. high is standing in water 10 ft. deep. It breaks and the upper portion falls, but the two portions still hold together and what was formerly the top of the pole hits the bottom of the water, forming a triangle. The distance across the water from the vertical part still standing and the slanting broken portion, or hypotenuse of the triangle, is 10 feet. How long is the vertical standing stub of the pole?