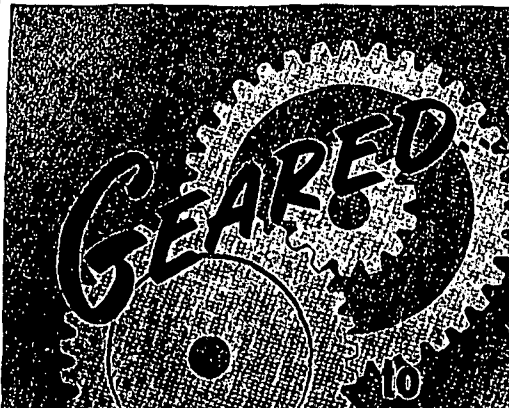

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were made: (1) Edward A Tuson appointed comptroller. (2) C Fred R was made assistant comptroller.

Stone & Webster, Inc, has acquired E B Badger & Sons Co for purpose of expanding engineering and construction activities of its subsidiary, Stone & Webster Engrg Corp, in process and industrial fields.

M W Kellogg Co, process engineers, announces appointment of Dr W E Ha to newly created post of director of petroleum and chemical research.

Robert H Fuller has joined H K Ferguson Co, industrial engineers and builders, as a contract engineer in Eastern district.

Frederick V Armistead and Dwight Goodman have formed the consulting engineering firm of Armistead & Goodman at 1259 N Kingshighway Blvd, St. Louis. They will specialize in industrial and municipal engineering.

Gates, Moo and Weiss, consulting engineers of Milwaukee, Wis., announce that R O Papenthien, architect and engineer, is now associated with their organization.

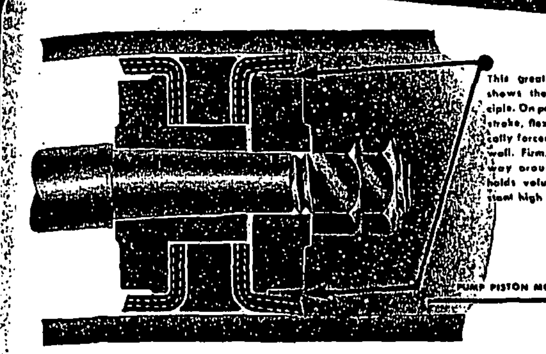
Everett Morss, president of Simplex Wire and Cable Co, has been elected to board of directors of Arthur D Little, Inc, Cambridge, Mass. Morss replaces W Cameron Forbes, who resigned. Officers of Arthur D Little, Inc, for 1948 will be Earl P Stevenson, president; Raymond Stevens, Thorne L Wheeler and Leroy F Marek, vice-presidents; Henry C Powning, treasurer; and Frank N Houghton, secretary.

Pioneer Service & Engrg Co, Chicago, announces that it has acquired the business and personnel of Public Utility Engrg & Service Corp.

Dr Oleg Yadoff has been appointed research associate in civil engineering at Columbia University. He will be associated with Prof Boris Bakhmeteff, specialist in fluid dynamics, and will continue research on projects involving measurement of low fluid velocities and turbulence.

Carnegie Institute of Technology has named Dr J C Warner assistant director of College of Engineering and Science. Dr Warner will continue as head of chemistry dept and dean of graduate studies.

Six changes in administrative positions at Cornell University were announced: (1) Dr Arthur S Adams, provost, resigned to become president of University of New Hampshire as successor to Dr Harold W Stoke, now president of Louisiana State University. (2) Robert A Doyle, vice-president for university development, has also resigned, but will continue on the staff as a voluntary special assistant to President Edmund E Day. (3) Theodore P Wright has been appointed president of Cornell Research Foundation and a vice-president of the university. (4) George F Rogalsky has been made vice-president



This greatly exaggerated diagram shows the Darcova Pumcup principle. On pressure side of each piston stroke, flexible Pumcup is automatically forced against liner or cylinder wall. Firm, uniform contact all the way around eliminates slippage, holds volumetric efficiency at constant high in spite of gradual wear.

THEY NEVER RELAX
when the pressure is on!

HERE is a piston packing that actually takes *advantage* of the fluid pressure built up in reciprocating pumps and in air or hydraulic mechanisms. The illustration above shows how Darcova Pumcups utilize this pressure . . . how *they hug the cylinder wall on every work-stroke* of the piston, preventing needless slippage.

Then, too, *friction* between the Pumcup and cylinder is automatically "pressure-equalized" all the way around for a uniformity of wear otherwise impossible. And, in contrast to other types of packing, fluid slippage does not increase with wear. Peak volumetric efficiency is retained even when Pumcup wear is far advanced.

Consequently, Pumcups offer two mighty important advantages. First, downtime and material and maintenance costs are cut to a fraction because Pumcups outlast other *types of packing many* times over. Secondly, volumetric efficiency is held constant.

Everything considered, it is easy to see how *thousands* of Darcova Pumcup users are saving up to $100 per pump per year. Easily installed, Pumcups replace ordinary packing in reciprocating pumps and in air or hydraulic mechanisms. They are precision built in ½ to 42 inch sizes and in many different textures for practically all fluids, pressures and temperatures.

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