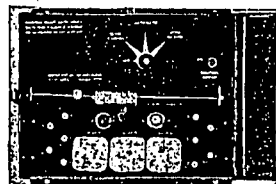


adaptable to $\frac{1}{8}$, $\frac{1}{4}$, $\frac{1}{2}$ and 1-in. tubes of various gases. Armstrong & Sons, 1061 Linden Ave., Ridgefield, N. J.

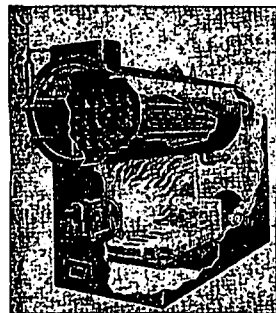
A19 REFRACTORY COATING—Insulated semi-glazed monolithic wall coating prevents spalling and decreases carbon, slag and clinker growths in fireboxes, furnaces and crucibles, maker says. Whitman Co., 1407 Esperanza St., Los Angeles, Calif. 23.

A18 DAMPER CONTROL—Electric time-delay remote damper control provides many features for precise control and safeguards involving switches, relays, for opening



damper in event of burner failure or shutting off burners when selector switch moves from automatic position during firing. Cleveland Fuel Equipment Co., 1836 Euclid Ave., Cleveland 15, Ohio.

A20 WATER SOFTENER—Improved zeolite water softener designed to accommodate as much as 44% more zeolite with no increase in over-all equipment size: thus it delivers as much as 44% more soft water maker says. Its distributing and collecting manifold arrangement guards against zeolite loss and makes it possible to utilize the zeolite bed most efficiently, says the manufacturer. Elgin Softener Corp., 141 N Grove Ave., Elgin, Ill.

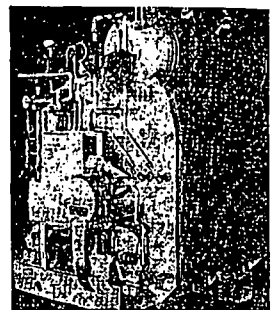


A22 PACKAGE BOILER—Economist dual-fired package boiler can be shifted from one fuel to the other by removing bricking and insulation from top of grates. Unit, shipped complete, comes with either

gas or oil burner and grates to permit overnight conversion. C H Dutton Co, 630 Gibson St., Kalamazoo, Mich.

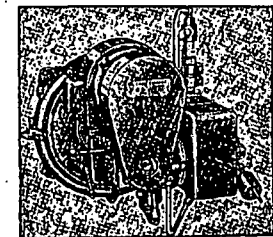
A10 GLASS INSULATION—Now line of lightweight, high-temperature insulating material is composed of specially processed filaments of glass in felt and built form. Insulation withstands temperatures up to 1800 F., and can be used for insulating housings and flange covers of high-temperature steam turbines, exhaust manifolds, and other applications where high temperatures are encountered. Owens-Corning Fiberglas Corp., 718 Fifth Avenue, New York 19, N. Y.

A21 PACKAGE BOILER—Factory-assembled boiler comes in capacities up to 27,000 lb. per hr. of steam in two pressure classes: (1) up to 250 psi and (2) up to 850 psi. Integral controls give full or semi-automatic operation and allow use of central control panel. Foster Wheeler Corp., 165 Broadway, New York, N. Y.



A8 TEST TUBE—Combination phosphate mixing and testing tube developed for use markings for test sample and chemical to be added. TraTest Laboratories, 20 S 33rd St., Philadelphia 4, Pa.

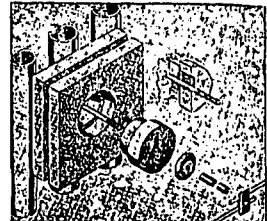
A14 OIL BURNER—Rotary-cup oil burner features positive displacement, variable-volume piston-operated pump. Type II models range from 8 to 125 gal per hr. with V-belt drive and standard 1750-rpm NEMA



specification motors. Iron Fireman Mfg Co., Portland, Ore.

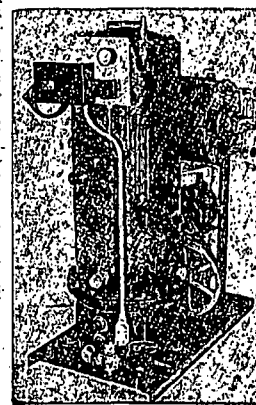
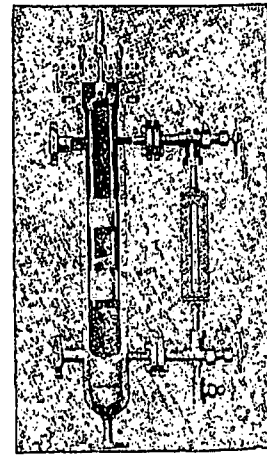
A15 WASTEHEAT BOILER—Fully self-contained in insulated steel cabinet, waste-heat boiler operates from exhaust gas of turbocharged diesel. Unit produces up to 500 lb per hr of steam using exhaust gas of 600 to 800 F, depending on size. American Locomotive Co., 30 Church St., New York 8, N. Y.

A16 FURNACE WALL—Complete refractory work, finished before any insulation need be applied, is claim of manufacturer. Pair of rotatable refractories with elongated slots adjust stud bolt to the tile.



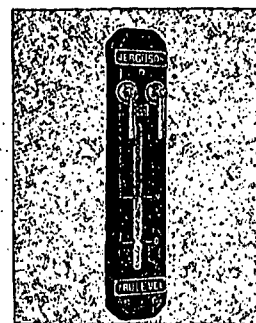
Combination tile-anchoring and insulation-holding nut is attached to stud bolt but spaced from the refractory by metal sleeves (see photo above). Geo P Reinjes Co., 2517-19 Jefferson St., Kansas City, Mo.

A11 WATER COLUMN—Column with low- and high-water alarm uses solid displacement weights balanced on stainless steel knee-edge supports. Jorgensen Cage & Valve Co., 80 Fellaway, Somerville, Mass. (Picture below.)

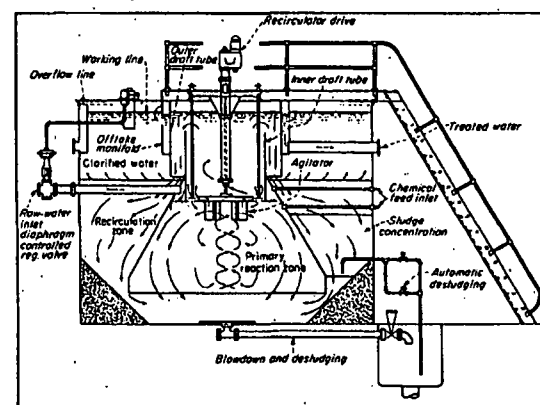
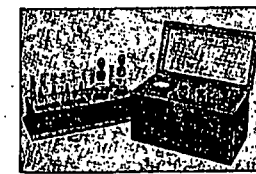


A13 PACKAGED BOILER—Gas- or oil-fired vertical firetube boiler delivers from 100 to 1500 lb of steam per hr at pressures up to 125 psi. Alert Engrg Products, Detroit 26, Mich.

A9 BOILER-LEVEL GAGE—Truelevel gage can be read and quickly checked at remote reading point. Jorgensen Cage & Valve Co., 80 Fellaway, Somerville 45, Mass.



A12 BOILER-WATER ANALYZER—Unit for boiler-water test uses photoelectric



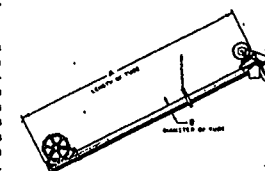
A23 WATER PURIFIER—Rapid to-aster combines basic elements for mixing, flocc formation, settling, and thickening in a single reaction vessel. Chemical reagents may be introduced for coagulation of turbidity alone, for partial softening with coincident turbidity reduction, or for complete softening and turbidity reduction. In operation, raw water is introduced into an environment of chemical reagents and

preformed precipitates, thoroughly agitated, and discharged into a zone of relative quiescence at controlled velocity. It finally passes into an integral settling and thickening reservoir from which it is collected for use. Retention time depends upon the characteristics of the raw water and the purpose for which the treated water is to be used. Cochrane Corp., 17th St & Allegheny Ave., Philadelphia 32, Pa.

cell to evaluate color or cloudiness of test sample. Reads phosphates up to 100 ppm and sulphates up to 4000 ppm without dilution. Barclay Chemical Co., 20 Albany St., Cambridge, Mass.

A24 STOKER FEEDERS—Screw-type stoker feeders "pipe" coal direct from storage to stoker. An electric motor, belt-connected to a power transmission, drives the screw feed. A universal joint centers the screw. A shear pin in this joint guards against overloading. Standard feeder comes in 20-ft lengths. Capacities range from few hundred to several thousand lb per hr.

An agitator is available for use with fine and "wet" coals. Hager Bros., East PO Box 1511, Rockford, Ill.



COMPRESSORS

X1 FREON COMPRESSOR—Increase of bore from 4 1/4 to 4 3/4 in. increases capacity per horsepower. Special oil drain and pressure-equalizing device connects suction jacket in each cylinder block to crankcase. Machines furnished with main-line stop valves, safety valves, set of V-belts, grooved wheel and motor pulley, oil pressure gage, initial charge of oil, oil strainer and scale trap. Frick Co., Waynesboro, Pa.

X2 COMPRESSED AIR COOLER—Integral-cast finned radiation element provides aftercooling for compressed air under normal atmospheric conditions. Any number of individual units can be connected together to form aftercooler of required size. Wilson Engrg Corp., 122 S Michigan Avenue, Chicago, Ill.

X4 RECIPROCATING COMPRESSORS—Reciprocating compressors, ranging from 5 to 100 hp, can be assembled in more than 1000 different combinations. Line designed so that the compressor, motor, base, coupling and condenser can be individually selected to match specific requirements of job. Construction features include automatic load-free starting, built-