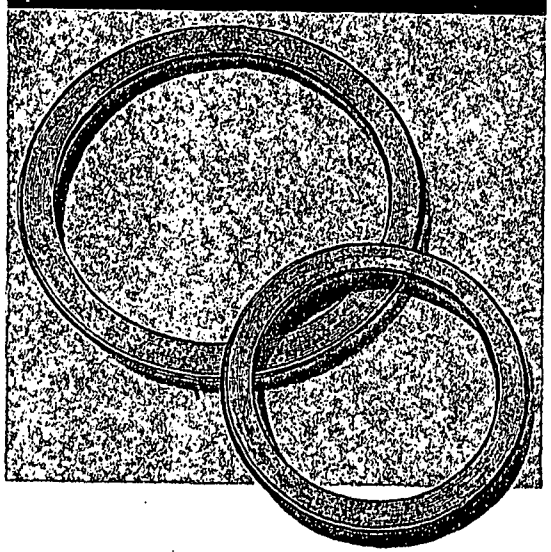
SPIRALWOUND



World's Most Popular Type Metal-Asbestos Gasket

Spirally wound Type Gaskets deserve their popularity because they offer a built-in resiliency, for safe seals with lighter bolt-loads, that no other gasket type offers.

Ajax Spiralwound Gaskets are made for all standard pipe flanges and for manholes, handholes and tube caps of all makes of stationary and marine boilers, waterwalls, economizers, and other boiler accessories.

They are available in plated low-carbon steel or stainless with fillers of Canadian or blue African Asbestos or chemically inert duPont Teflon.

Ask your Industrial Distributor or write—

UNITED STATES GASKET COMPANY

FABRICATORS OF "TEFLON" & "KEL-F" FOR THE CHEMICAL PROCESS & ELECTRONIC INDUSTRIES

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BOILER SCALE

Continued from

result of too wet a steam leaving boiler drum. An overburdened inadequate mechanical facilities normally high water concentration all bring on spasmodic priming continous carryover of water into areas. Often a boiler lacks *purifying equipment* for these tions. Boiler-water droplets carried evaporate along the steam passages leave their *scale-forming* deposits hind. Superheater or equalizing fail for this reason.

A little soluble sodium silicate boiler water tends to hydrolize sodium hydroxide and silicic acid 4. The latter is an insoluble colloidal product. At fairly high temperatures this colloidal acid volatilizes with steam and its carryover increases rising temperatures and soluble concentrations in the boiler water licic acid becomes more noticeable operating pressures above 600 psi with excessive silica concentrations acid occasionally carries over as *as 400 psi.*

In a well superheated steam this is harmless. But as the steam expands *in the late stages of a turbine* the condenses out on the blades to form water-repellent, glossy and extremely sticky mass that greatly decreases bine efficiency. You have to resort caustic soda bath to remove it.

AIR POLLUTION

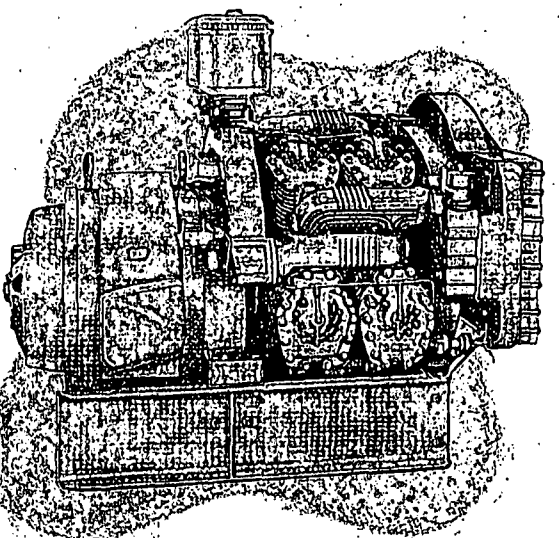
Continued from

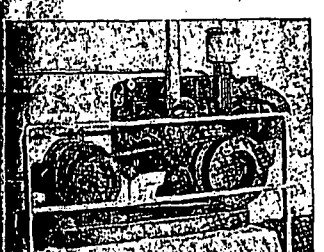
with pulsating rather than with voltages. Further, the highest peak voltages on discharging produce the best results, Fig. backing up these peak powers must be an adequate transformer rectifier capacity. What's more higher the applied voltages, the *bus sectionalization becomes* With greater sectionalization two advantages develop: (1) troubles appear are isolated. (2) of electric energy through which gas passes are more uniform.

Contrary to earlier ideas, peak lection efficiency comes from setting precipitator voltages high enough to duce sparking, about 100 sparks minute per precipitator section.

New designs meet this requirement fully as possible. Current and ratings of rectifier sets, commonly for flyash applications, are 150 to mva, and 70 to 100 kv. Power may run up to 9 kw for 100,000 gas flows to achieve a 97% collection efficiency. Exact peak-voltage

JOY WL-80 COMPRESSOR with automatic start and stop control





JOY COMPRESSORS meet any need!

Air-cooled or heavy duty water-cooled; complete range from 1.4 to 8800 CFM, ¼ to 600 HP.

A Real "Package-Unit"

Joy WL-80's are ideal for the smaller air-requirement jobs, or for de-centralized air supply, etc. These two-stage, air-cooled units are delivered ready-to-go, complete with air receivers, piping and wiring if you wish—just hook them up to power and air lines. Extremely compact and efficient, a WL-80 will fit into any small corner of your plant. You can eliminate long runs of piping; compress the air right where you use it. Available in eleven sizes from 15 to 125 HP, 81 to 641 CFM, with pressures to 125 PSI, for service indoors or out. ● *Write for Bulletin A-56.*

Joy also makes a complete line of Oil-Free Compressors for applications where air must be free of any lubricant. *Write for details.*



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