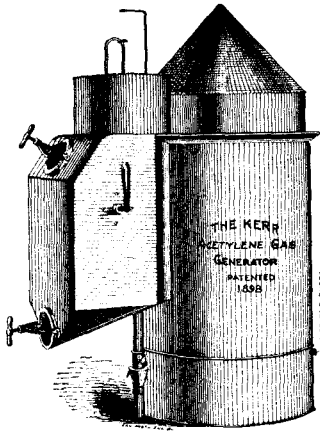


**THE KERR ACETYLENE GAS GENERATOR.**

The accompanying illustrations are of the Kerr acetylene gas generator, manufactured by the Kerr Acetylene Gas Generator Co.,



Niagara Falls, Ont., and of the burner used in giving the light.

By reference to the illustration it will be observed that the generator has two openings, one near the top for the reception of the carbide, the other near the bottom for the removal of the hydrated ash. The latter operation can readily be accomplished with the aid of an ordinary scuttle, the ash being removed in a dry condition without soiling the hands or clothing. The openings are easily opened and closed by hand, and made perfectly air-tight without the use of wrench or other tool. The reservoir for containing the supply of water is large and conveniently located on top of the generator.

The makers claim that their device for regulating and sprinkling water on the carbide is the acme of perfection, there being no stop cock, valve or other mechanical arrangement requiring power to operate, and liable to rust and stick; and in the construction of the entire machine absolutely no copper or copper alloy is used, as such is considered a dangerous element, strongly objected to by fire insurance underwriters.

Other advantages claimed for this machine are:—

Under no circumstances can the gas from the holder escape while the generator is opened for replenishing or cleaning.

The pressure of the gas, which is 1½ ounces per square inch, never varies.

The gas is delivered to the burners cold and in a perfectly dry condition, and therefore there is no condensation in the pipes and no clogging of the burners, as is the case when the gas enters the pipes while hot.

The apparatus is automatic in its operation, generating gas only as it is consumed. Gas beyond the capacity of the machine cannot be generat-

ed, as the admission of water to the carbide is not dependent upon the pressure of the gas.

The Kerr generator is designed for use in private houses, offices, stores, churches, factories, and in all places where artificial light is required.

Every machine when shipped is in complete working order, and requires no setting up other than placing in position and making connections with the safety overflow and burner pipes, filling the holder with water and the generator with carbide. Where ordinary gas pipes and fixtures are already in use the only change in them necessary is to substitute the acetylene burners, shown in the illustration.

For stereopticon and photographic purposes the company manufacture a small portable generator, that can be readily carried about and set in operation; and rubber tubing can be used to connect it with movable fixtures. For photographic use, acetylene, it is claimed, is superior to electric or other artificial light.

Further information can be had by applying to the company.

Put automatic sprinklers in your mill, have your hose in order, distribute hand grenades on the different floors if you like, and obey the injunctions of the inspector. But don't forget those barrels of salt and water. Keep them full. Don't allow the pails to be diverted from their use. Use a pail that can't be used for anything else. Millers' mutual companies all testify that the handy barrel and pail put out more incipient fires than any other instrumentality. See that you keep yours in order.—American Miller.

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