ing it. Acetylene is a gaseous compound not poisonous, hence, there is no danger gasometer, which is of sufficient capacity to of 24 parts by weight of carbon and two from applyxiation if the light should be contain the gas evolved from the quantity parts of hydrogen, and is evolved from cal blown out. House plants cannot be kept in of carbode deposited at one time. This thereto.

Calcium carbide is made by fusing lime to them.

Calcium carbide is made by fusing lime to them.

An acetylene burner, consuming one cubic for cortain purposes over any other system, and carbon (coke) at a very high temperature.

An acetylene burner, consuming one cubic for cooking purposes, provided the plant brought in contact with water, acetylene candle power, or fifteen times as much as by may be used in combination with the lightest star, and being passed to the proper burners, this advantage in power, its diffusive properties and being passed to the proper burners, this advantage in power, its diffusive properties and the same machine. This forms the most brilliant illuminant yet discovered. The light is without the glare of to I instead of 15 to one. the arc lamp, the reddish glow of the electric | Speaking of the different styles of maneandescent loop, the ghastly green of the chines constructed by this company, we are chinery, supplies a heat two and a half larger or Welsbach mantle, the flickering informed.—
times greater than that of ordinary gas burner or the Our Sun lighting machine is constructed. The company make Duplex machines in offensive odor of the oil lamp.

Acetylene possesses hygienic advantages not found in other methods of illumination. An acetylene flame gives off about as much heat as an ordinary incandescent lamp of equal candle power, so that it has no effect on the temperature of a room.

Combustion is complete, a very important point, as there is no escape of unconsumed gas. Acetylene burns down close to the burner, leaving no blue zone as in ordinary gas. The atmosphere is not vitiated by carbon dioxide, which is given off in large quantities by the ordinary gas flame. It burns with a clear, white steady flame, without smoke or odor, but if the gas is allowed to escape from the burner unconsumed, it gives off a strong odor which would cause it in a large body of water in the generating declined 9s. per ton; Cleveland, 12s. 4½d, to be immediately detected. Acetylene is chamber. The gas passing thence to the and he natite, 8s. 10½d, per ton for cash.

cium carbide, by the application of water in room where ordinary illuminating gas is machine is decidedly the simplest and hest used, while acetylene is in no way injurious, made on this principle, and has advantages

The pure white light of an acetylene ly the best in its class. By this process the tlame so nearly resembles sunlight that all shades of color are accurately distinguished quantity to supply gas for the burners in by its rays. matic; it dries, cools, condenses and purifies the gas, thus delivering it to the burners pure, dry and cool. The residue left after the carbide is consumed can be removed as easily as the ashes from a stove and just as dry. The hundreds of these machines now in use bear testimony to their successful and satisfactory operation.

There are those, however, who prefer a system of generating acetylene wherein the carbide is deposited in a body of water sufficient to entirely decompose it. For this system we manufacture our Beacon acetylene machine. In this machine quantities of carbide, varying in amount according to the

this company's other machines, and without any complications whatever or other ma times greater than that of ordinary gas.
The company make Duplex machines in both Sun and Beacon styles. They manu facture a line of gas stoves and ranges for use with this machine.

The company carry in stock a full line of acetylene burners of various makes, and themselves manufacture several styles. They also make acetylene gas meters.

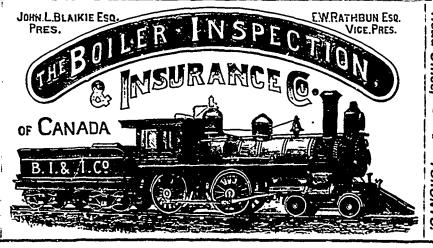
## CANADIAN IRON MAKING.

The Montreal Star of August 4th, reviewing the conditions of the iron market and the progress of the industry in Canada,

A panic ruled in the pig iron market at Glasgow yesterday, and iron was thrown over to catch any profit. The bears joined in the selling, and on the day Scorch iron lost 3s. 61d., Cleveland iron, 5s. 11d., and hematite 3s. 7d. per ton, for cash. Since

## When were Your Last Inspected?

O. ROBB, FRASER, છં લં



Are You sure they are SAFE and in Good Condition?

## Reduce Your Fuel Bills Increase Your Output...

UNDERFEED Guaranteed Increased Economy, from 15 to 50 1 Guaranteed Increased Boiler Capacity from 40 to 100%

NO ASHES. NO SMOKE. NO TROUBLE. NO MONEY REQUIRED IF GUARANTEES ARE NOT FULFILLED The first and Only Successful Underfeed Stoker.

No Underfeed Stoker is successful without infringing our Patents, and the public are warned against in porting or using infringing devices.

N.B. Have you seen our Underfeed as applied to Houses Schools, Churches, etc. I (Send for Circular).

For Estimates and other Information write

## The General Engineering Co. Limited

SOLE MANUFACTURERS FOR CANADA,

Head Office - 80 CANADA LIFE BUILDING, - TORONTO.

Montreal-A. TREVETHICK, Box 1123.

When writing to Advertisers kindly mention The Canadian Manufacturer.