

A New Fuel from Waste-Wood

H. C. Diers, an American industrial engineer, has perfected a new commercial process for converting the waste wood from lumber mills and waste liquids from paper pulp mills into a new fuel, which he calls lignacite. Mr. Diers has been working on the process for several years.

With an improved system of retorts and rollers the raw waste wood from the lumber mills is hogged, then put through a process of carbonization, the residue treated with sulphide liquor under temperature, and by a system of compression made into layers, the same as a coal vein. When the prepared bed of fuel is cooled it is broken and is ready for use. The fuel resembles coal but is lighter in color. It is claimed that the cost of making this fuel is a great deal cheaper than the making of coal briquettes. An important feature is the fact that there are valuable by-products which largely pay for the process.

This new fuel is practically a pure carbon, having less than 2 per cent ash and no volatile matter, moisture or sulphur. It makes an intense heat, and it is claimed that it is adaptable for all metallurgical purposes, is absolutely smokeless and stands handling and weather conditions. A test of the fuel was made in one of the iron works on Coos Bay and as a heating agent proved to be equal to the best Eastern coke.

Speaking of his invention, Mr. Diers says: "The Pacific coast states at the present time produce less than 150,000 tons of low grade coke. All of this is made in the state of Washington and consumed in local smelters of that state. The states of the Pacific coast, for all metallurgical purposes, consume over 750,000 tons of coke annually and 80 per cent of this coke comes from the eastern states at a cost of millions of dollars annually. With the new process fuel the future supply of metallurgical fuel for the Pacific states is in the hands of the lumber mills and paper pulp mills, as they have the products to make the fuel and are now wasting those products."

The daily attendance at the Canadian Forestry Association's two railway cars, Eastern and Western, this year is breaking all records. Arrangements have been made to attach the Western car to the Better Farming Train sent out by the Saskatchewan Government.

Hands across the Boundary !

From the Schroeder Mills and Timber Co.,
Milwaukee, Wis.

(Referring to the educational enterprises of the Canadian Forestry Association)

"We believe this is a very worthy cause and should have both our moral and financial support. I know personally of the great deal of good which has been done along these lines in the Pacific Northwest, and I can also say from experience that the Canadian people who travel the bush are not fully alive as yet of the deadly menace to their interests which is presented in the way of carelessness with fire while in the woods. I hope that some day conditions in Ontario will be as good as they are in Oregon, Washington and Idaho, where the actual timber loss by fire during the past 4 or 5 years has been very small, and what losses they have sustained have been caused by conditions well beyond the control of human beings."

An Association Supporter

From: D. & J. Ritchie and Company,
New Castle, N. B.

Enclosed please find our cheque for \$5.00 being amount of Contributing Membership to your association, as well as covering subscription to the Canadian Forestry Magazine. We might say that we are pleased to receive the Magazine from month to month and enjoy reading it from cover to cover, as there is always sure to be a vast amount of valuable information contained therein, and it is nicely written as well. We also realize what a vast amount of good the Association is doing in an educational way in promoting the conservation of the Forests, and we are glad to give what little assistance we can from time to time.

A Patriotic Company

No company is rendering better or more independent service to the cause of forest protection than the Roberval-Saguenay Railway, Chicoutimi, Quebec, of which Mr. J. A. Vallerand is General Superintendent. The Company has issued a series of instructions to their employees which show the fullest appreciation of the importance of fire prevention and an exact knowledge of methods for their prevention.