

Conservation

A monthly bulletin published by the
Commission of Conservation, Ottawa, Canada.

VOL. III

MAY, 1914

NO. 5



(Cut No. 63)

Mechanical stokers used—no smoke visible.

Importance of Proper Exits

The Dangers Minimized by Right Precautions

The question of exits is of vital importance in minimizing fire dangers.

In most moving picture theatres the booth containing the cinematograph machine is placed directly above the main entrance. Consequently, if a roll of film becomes ignited, the crowd must pass dangerously near the fire in order to escape, and panic is liable to arise. There is no good reason why the machine booth should not be placed at the other end, that, in case of accident, the rush would be away from, and not toward, the centre of peril.

As an aid in illustrating lectures, the increasing tendency to supplant the old-fashioned lantern slides by the more life-like moving pictures will increase the fire-hazard in churches, schools, Y. M. C. A.'s and other institutions, not specially equipped for the use of cinematograph machines. In many churches, the exits even from the main body of the building are insufficient, while, in the portion used as a Sunday school, where week-day entertainments are most frequently carried on, conditions are still worse.

Building regulations with regard to fire-escapes should be made more stringent and existing by-laws strictly enforced. In some buildings there is a tendency to lock or block the way to these special exits. Sometimes the escapes lead into courtyards. Regular inspection should be provided to see that such means of egress are kept clear, and are readily opened at an instant's notice.—P. M. B.



(Cut No. 64)

Hand firing employed—smoke very dense.

Mechanical Stokers Prevent Smoke

Smoke is unconsumed carbon and hence represents a loss of fuel.

The greatest loss of fuel as smoke occurs from the use of hand-fired boilers. To obviate this, it is necessary to fire often and distribute the fresh coal evenly over the surface of the fire, the success of the operation depending largely on the intelligence of the fireman.

Properly regulated mechanical stokers are the most efficient means of firing stationary boiler plants. They also have the advantage of being automatic and the boilers can be fired with lower-grade coal.

There are many different types of mechanical stokers on the market; the one shown in our illustration is a chain-grate stoker firing water-tube boilers and using slack coal.—W. J. D.

TO NEWSPAPERMEN

To further public interest in conservation subjects, the Commission will lend to Canadian journals the cuts used in this bulletin. These may be obtained in either fine or coarse screen.

As there are only a limited number of these cuts, delays are sometimes unavoidable, but orders will always be filled as soon as possible after receipt of application. It is requested that cuts be made use of at the earliest possible date, and returned promptly, enclosing note showing by whom sent. We shall be pleased to receive copy of publication in which the illustration appears.

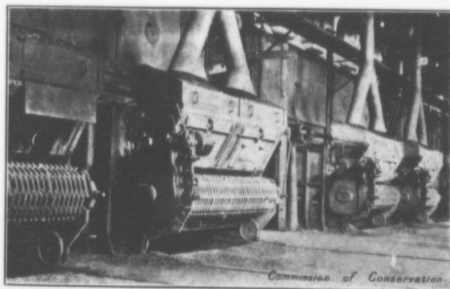
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The Dominion Forestry Branch and the British Columbia Forest Branch each employ about thirty technically trained foresters. The Province of Quebec employs sixteen, and Ontario two. Nova Scotia has provided by law for the appointment of a provincial forester, but the appointment is still pending. New Brunswick needs a provincial forester, and has the matter under consideration.—C. L.

In general it may be stated that the most dangerous forest fire periods in the west are in middle and late summer; in the east they are in the spring and fall.

Canada cuts about two million cords of pulp wood annually, about half of which is exported for manufacture in the United States.



(Cut No. 65)

Chain-grate stokers, Allan Shafts, Acadia Coal Co., Stellarton, N. S. By using these stokers, almost perfect combustion is obtained, as may be seen from the illustration at the top of this page.

To secure a merit badge in forestry, boy scouts are required, among other things, to identify 25 kinds of trees.

There is a flourishing forest school in the Philippines, and 28 men were graduated with the class of 1913.