

SPECIAL FEATURES OF RONEY STOKER.

One of the most important features of this new model Roney stoker is the sectional grate bar, or fire top, shown in Fig. 14. For the upper four grates, a nonsifting type

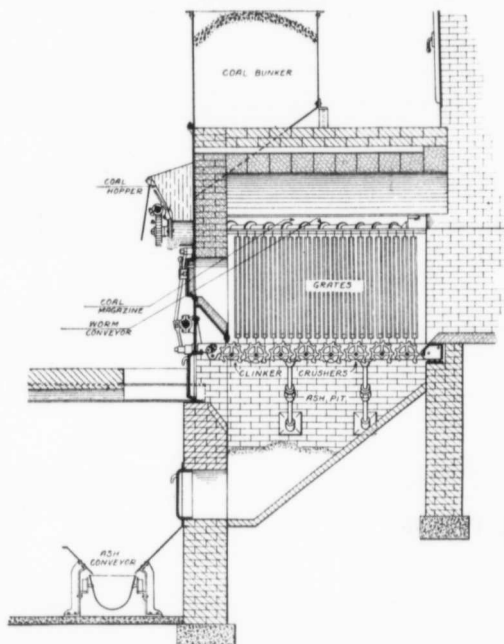


Fig. 12—Suggestion for Labor Saving in Handling Coal and Ashes.

top is used, provided with abutting horizontal ledges to prevent the fine fuel sifting through. The construction of the grate is made quite plain by the illustration and it is evident that the plates are easily removed.

The new type of guard prevents the fire from sliding into the ash pit when the dumping grate is operated; and the new dumping grate is hinged about one-third forward, dumping both front and rear.

The rocker motion is transmitted to the grate bars

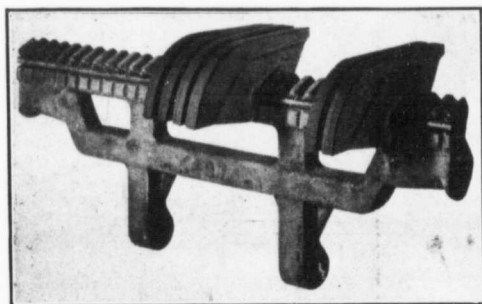


Fig. 14—Sectional Grate Bar, New Model Roney Stoker.

by means of a connecting rod from the eccentric "agitator."

The air supply is admitted through two wind gates, located on either side of the stoker as shown in Fig. 13.

It first passes to the rear of the fire brick arch, extending across the front of the furnace, and is then directed by baffles to the crown of the arch, at which point it enters the front air spaces. From the latter, it enters the furnace through the spaces between the stoker front and the first ring of arch brick. Passing the air over the furnace in this manner, not only pre-heats the air, but assists materially in cooling the arch.

The fire brick arch is of such extent and so designed that it completely cokes the green fuel and directs the gases downward over the hottest parts of the fire, therefore, permitting the volatile gases to be completely consumed before coming in contact with any of the boiler heating surfaces.

New Lodges Being Formed

That engineers throughout Ontario realize the benefits to be derived from membership in the Canadian Association of Stationary Engineers is evident from the movements now on foot in several localities towards the organization of local lodges. These districts include Sarnia, Strathroy, and Dresden. Engineers in these different centres are talking the matter over, and meetings will be called, at which the organization of local lodges

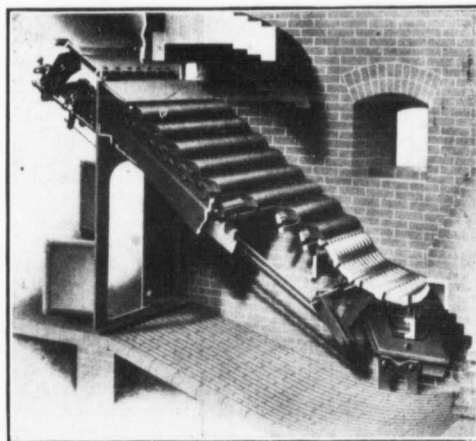


Fig. 13—New Model Roney Mechanical Stoker.

will be started. The Executive Secretary will probably be present at these meetings to lend his assistance and advice. It is fully expected that four or more new lodges will be formed before the end of this year.

The aims of the Association are such as to deserve the hearty support of all engineers and all others interested directly or indirectly in the advancement of stationary engineering. There is no doubt that as long as the Association lives up to the preamble to their constitution, it will do good work and will make steady advancement. The Association is building on a solid foundation; if the building material continues as good as heretofore, there is a big future ahead of the Association.

In this issue is continued a series of articles on the transformer designed to be of value to the man in the shop and also to the station operator. Some of the best practical information on transformers obtainable will be contained in this series of articles. The article in this issue treats with transformer insulation.