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Cleave, A. H. W.

Please read and send in as full a
discussion as possible at earliest date.

The Canadian Society of Civil Engineers.

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THE MECHANICAL EQUIPMENT OF THE OTTAWA MINT.

By A. H. W. CLEAVE.

(To be read before the Mechanical Section, February 27, 1908.)

The mechanical equipment of this branch of the Royal Mint was completed by the end of October last—the time occupied in the manufacture and installation of the necessary machinery having been just ten months.

Many machines in the Coining Department have been designed specially for the Ottawa Mint, and in these new devices have been adopted which are to be found in other similar institutions. In addition to the machinery in that department, where the actual minting of money takes place, the following plants have also been installed:

- (i) The Electrical Plant, for power distribution, for lighting, etc.
- (ii) The Oil-fuel Plant, for storing and distributing the oil-fuel used throughout the various departments in the melting, annealing, and cupel furnaces together with the fans and blowers for the same.
- (iii) The Die-making Plant, for sinking, turning, annealing, and hardening the dies used for coinage purposes.
- (iv) The Plant for the Boiler House and the Machine, Smith's, and Carpenter's Shops, in which all running repairs are effected and small tools made.
- (v) The Plant for the Assay Department, where all the precious metals received into and issued from the Mint are analysed; and in which experimental research work will be conducted.