

TWO RACKS + TWO PINIONS = square closing!

The twin rack and pinion design of S. E. Co. Coal Valves is a guarantee that these valves will operate easily and dependably. Fine coal particles and mois-

ture can't harm working parts in the S. E. Co. Coal Valve... can't cause sticking or hard operation because all working mechanism is shielded.

Write for illustrated bulletin

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STOCK ENGINEERING COMPANY

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necessary background for understanding construction and operation of electron tubes and their applications. Good books for further study in Electronics, by John H. Morecraft; Principles of Electronics, by Royce C. Kline; Electronics for Industry, by W. I. ...—all published by John Wiley & Sons, New York, N. Y. Fundamentals of Vacuum Tubes, by A. V. Eastman; Electronics in Industry, by G. M. ...Electron Tubes in Industry, by ...Henney; General Chemistry, by ...A Timm—all published by McGraw-Hill Book Co., New York. Electronics for Electricians and Radio Repair, published by Coyne Electrical School, Chicago, Ill.

Plant Problems

(Continued from page 116)

2 is being emptied, cylinder 3 is exhausting, cylinders 4 and 5 are curing, and cylinder 6 is cooking. Here is a definite sequential operation. During the 12 hours, 1 cylinder is always being emptied, another filled, 1 cylinder is exhausting, 2 are curing, and 1 is cooking. This keeps a filling gang and emptying gang going for the entire 12-hour period. It also makes available exhaust steam from one cylinder to another during the same period.

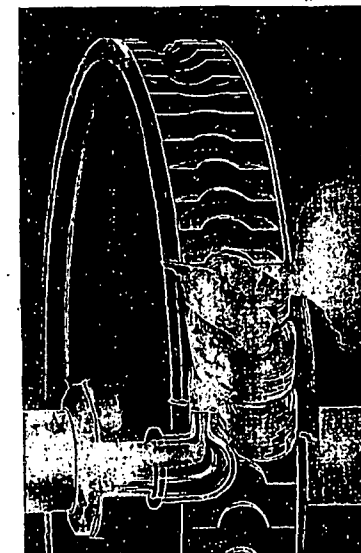
This arrangement is not fixed but is merely suggested to show *HP* what proper study of his problem will do. The arrangement is flexible and he can set up a sequence to suit plant conditions.

He will probably have to modify his existing piping installation if economy shows it is worth while. Note, too, that I have extended the exhaust period from 40 min to 2 hr. This can be done by proper throttling. Now *HP* can use the exhaust steam to advantage to heat the feedwater, and this would be available throughout the 12-hour period. Allowing two hours for filling and two for emptying includes a rest period, which the men will welcome. K. B. Hoffman, Tenafly, N. J.

Reconnect Injector

HP's first step is to have steam from his curing cylinders analyzed to check its possible use for heating feedwater in an open feedheater or hotwell tank. If steam contains harmful material that causes scale in boilers and feed lines, the only alternative is to pass it through

TERRY



Action of steam in Terry wheel turbine. The steam issues from an expanding nozzle at high velocity and enters the side of the wheel bucket in which its direction is reversed 180°. As this single reversal uses but a portion of the available energy, the steam is caught in a stationary reversing chamber and returned again to the wheel. This process is repeated several times until practically all of the useful energy has been utilized.

NO PARTS TO LOOSEN OR WORK OUT

The rotor of the Terry Wheel Turbine is a single forging of special composition steel, in which a series of semi-circular buckets is milled. There are no separate parts to become loose or work out.

The power-producing action of the steam takes place on the solid curved backs of those buckets or pockets. Therefore close

clearance is unnecessary and wear on the blades forming the pockets is of little consequence, as it does not materially affect horsepower or efficiency.

For detailed information about this effective construction and its advantages, write us on your business letterhead for a copy of Terry Turbine Bulletin S-116.

T-1172

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