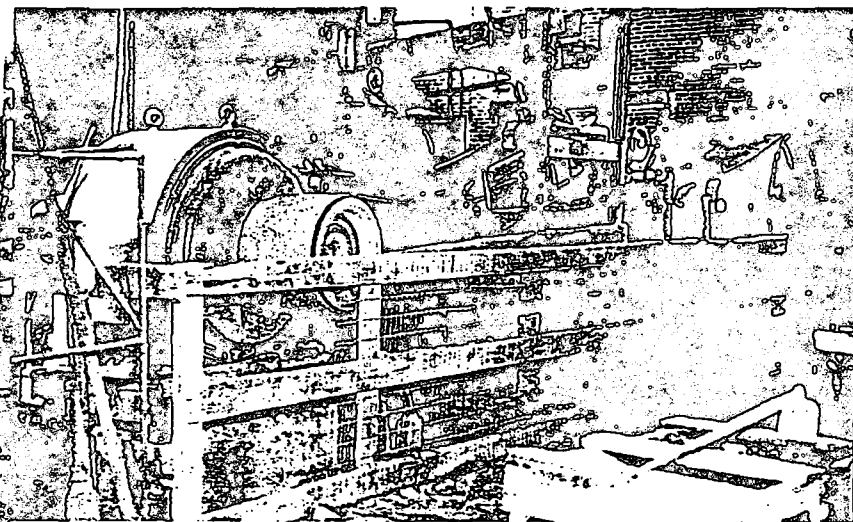
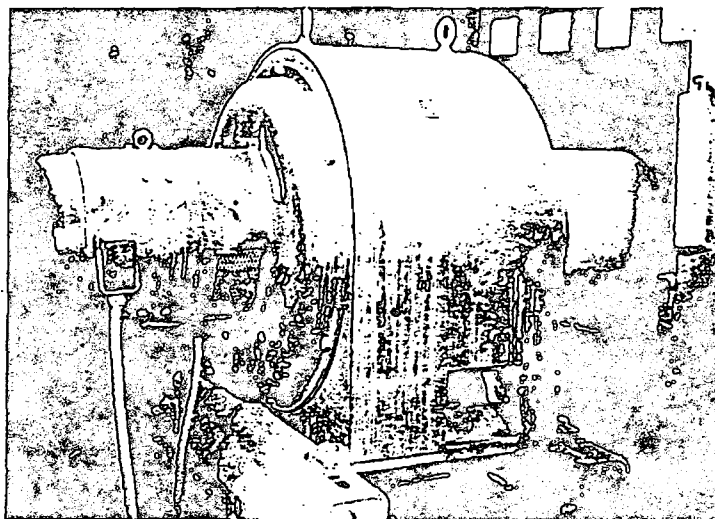


MOTORS IN CLAY PRODUCTS PLANT



This Elliott 200-hp, 450-rpm synchronous motor is belted to the pug mill in the plant of Graf-Kittaning Clay Products Company. Motor operates in a dusty atmosphere.



THE Graf-Kittaning Clay Company in its plant near Kingston, Pa., makes various drain tiles, flue linings, and tiles. The plant has been two adjacent clay pits for many years. The process is rather simple and shale from the pits are taken to a dry pan where they are milled down. A conveyor carries material to a clay bin from where it goes to the pug mill, is mixed with water, and extruded through dies. The wet tiles next go to a kiln where they are dried for about a half under controlled temperatures. Then they are sent to 13 kilns where they are fired for four days, after which two days are allowed for cooling.

The plant equipment has been built upon many occasions. The latest improvement is an Elliott synchronous motor driving the pug mill. This motor is illustrated.

This close-up of one of the oven fans shows a portable fan which is moved and placed in any desired position around the works. It is one of many such units, the motor an Elliott.

View of synchronous motor from the other side shows overhung exciter.

