

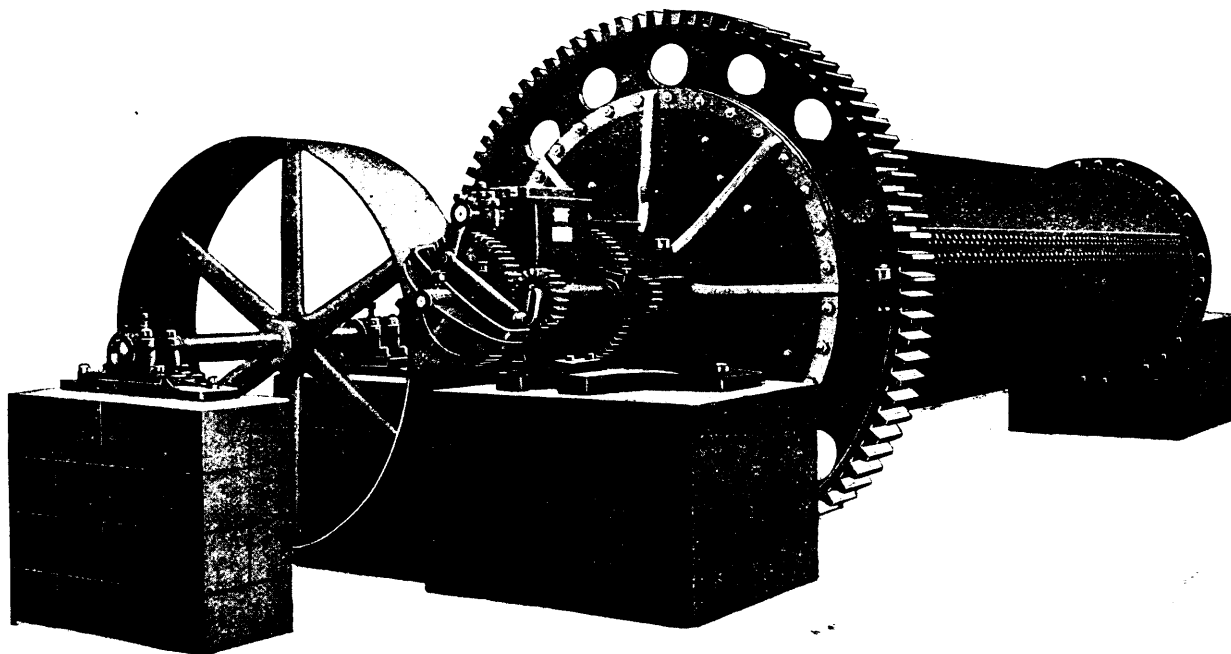
# ALLIS-CHALMERS CO.

SUCCESSOR TO

THE EDWARD P. ALLIS CO. FRASER & CHALMERS, GATES IRON WORKS, DICKSON MFG. CO.  
Milwaukee, Wis. Chicago, Ill. Chicago, Ill. Scranton, Pa.

MANUFACTURERS OF

## Mining Machinery



### GATES' TUBE MILL

This cut illustrates the highest type of all modern fine pulverizers, namely, the Gates Tube Mill. As a tube mill it is essentially a fine pulverizer and when used as such is effective and economical, giving large capacity at a very low cost for repairs. The Tube Mill consists of a plate steel shell, made to revolve by means of heavy gearing at about 25 revolutions per minute. The shell is about half filled with hard flint pebbles and material to be pulverized, and the constant rotation and wave-like tumbling action of the pebbles produces an enormous and flexible grinding surface. It is continuous in its operation, being equipped with the Gates Patent Automatic Adjustable Feeder and most approved form of dustless discharge. As the fineness of the discharged product depends upon the quantity of material fed, we have taken special pains to produce an automatic feeder, driven from the mill itself, capable of being adjusted to a nicety, which is not found in any other tube mill. In a modified form this same type of mill can be used for wet pulverizing, and we have furnished a number of the smaller sizes for regrinding jig tailings.

We have patterns for and are prepared to manufacture mills 36, 42, 54 and 60 inches in diameter, and of any practicable length for the respective diameters.

#### BRANCH OFFICES:

NEW YORK, Broad Exchange Bldg.  
PITTSBURGH, 1212 Frick Bldg.  
MINNEAPOLIS, 116 Corn Exchange Bldg.  
DENVER, 1619 Tremont St.

#### GENERAL

CHICAGO,



#### OFFICE:

ILL., U.S.A.

HOME INSURANCE BUILDING.

#### BRANCH OFFICES:

SALT LAKE CITY, Dooly Block.  
SPOKANE, 512 First Ave.  
SAN FRANCISCO, 623 Hayward Bldg.  
LONDON, ENG. 160 Dashwood House