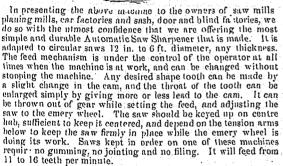
## TRIUMPH AUTOMATIC SAW SHARPENERS!



Price delivered on cars in Oshawa, \$175.
For further particulars address, JOSEPH HALL MFG.
CO., OSHAWA, ONT.

JOSEPH HALL MFG. CO.,

(ESTABLISHED 1851.)

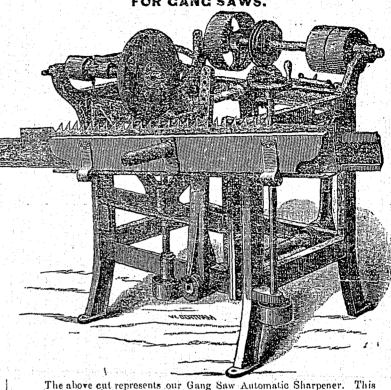
OSHAWA, ONTARIO.

MANUFACTURE THE CELEBRATED

JAMES LEFFEL'S

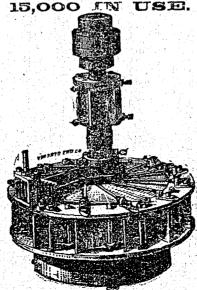
Double Turbine Water Wheel

All Sizes of Stationary & Portable Engines and Boilers, Shafting, Pulleys, Hangers, Gearing, latest improved English and American Gangs,



The above cut represents our Gang Saw Automatic Sharpener. This machine has been fully tested, and has developed a practical capacity for sharpening from 20 to 25 teeth per minute, making the dressing of a full set of gang saws in as quick time as any other process. The machine is simple in construction, easily understood, durable in character and thoroughly automatic and reliable in its work, leaving each tooth of each saw an exact counterpart of its fellow upon any other saw of the gang, both as regards length and depth of tooth, and the hook as well. The saw may be set in the frame to give any desired rake, while a perfect uniformity is fully assured. By means of a cam, a certain uniform motion is imparted to the emery wheel, while the same uniformity is imparted to the finger which moves the saw. The machines are well made and consequently durable.

Price, delivered on cars at Oshawa, \$175.00.
For further particulars address, JOSEPH HALL MANUFACTURING CO., OSHAWA, ONT.



## The Stearn's Circular Saw Mills,

WITH

## FRACTIONAL HEAD BLCCKS AND KING OF DOGS.

This Mill is acknowledged in the United States and Canada to be superior to all others.—also a very complete Circular Saw Mill with Iron France, and cheaper Head Blocks for Small Mill, Saw Mill, Flour Mill, Paper Mill and Water Works Machinery a specialty.

For further particulars, address,

JOSEPH HALL, Manufacturi'g Co. oshawa, ontario.