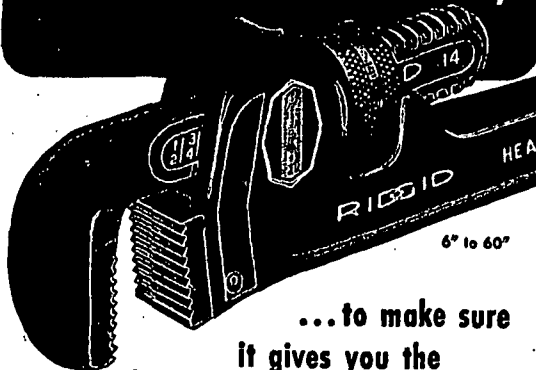


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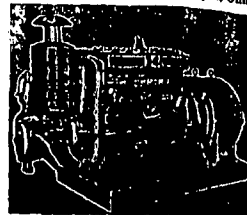
The reason **RIGID** Heavy-Duty Pipe Wrenches are known for the brutal punishment they can take is because of the toughness built into them, chocked part by part and then hard work-tested when assembled... not just one wrench in 100 or 1000 but every last one!... Add the guaranteed repair-free housing, no-slip no-lock jaws, handy pipe scale, easy spinning adjustment nut and comfort-grip I-beam handle and you see why genuine **RIGID** gives you the big value for your money. Buy them at your Supply House.

THE RIDGE TOOL COMPANY • ELYRIA, OHIO



More EQUIPMENT NEWS

side of blower. With this arrangement clean air from outside the duct enters through belt tube and over bearings. Complete removal of vulnerable parts from contact with destructive elements in stream insures long life and trouble-free operation, according to manufacturer. Units are available in sizes from 12 to 54 in. Hartnell Propeller Fan Co., Piqua, Ohio.



Industrial Compressor

1204 • Model 600 Super Unstage industrial air compressor provides 600 cfm at 100 psi. Unit is recommended for either unit system installation or as a central supply if 600 cfm is sufficient to meet entire air needs. Powered by a 150-hp induction motor, Super Unstage reportedly has 45% greater capacity than largest of earlier models, yet requires little more actual floor space for installation. Unit is vibrationless, can be installed without expensive foundation. It is available with running water cooling or with cooling unit built in with or without a hood.

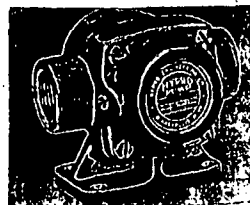
Schramm, Inc., Westchester, Pa.

For more data on these items, use post card 187. Identify your request with item number.

Hand Pump

1244 • New hand pump reportedly can blow or suck out sludge in oil lines or can prime and test lines. Suction and pressure side of pump terminate in two absolutely tight check valves. Piston is of solid brass with neoprene ring; 8-in. barrel is of heavy gauge brass. Unit is available with or without check valves.

Hold-Tite Valve Manufacturing Co., 550 Fifth Ave., New York 36, N. Y.



Industrial Pump

1252 • New industrial pump with neoprene rotor and rubber roller-type vanes is described. (Continued on page 182)

HALL INDUSTRIAL WATER REPORT

Hall Laboratories, Inc.—A Subsidiary of Hagan Corporation, Pittsburgh, Pa.

Volume 1

DECEMBER 1953

Number 6

Double Trouble Solved

A utility plant has solved a two-way problem with base exchange water softening. Suspended matter periodically fouled up the beds so that after regeneration the exchangers functioned at low efficiency. In addition, tanks were flooded by the brine solution for regeneration.

These problems were presented to the Hall field engineer in the plant, and were licked when he prescribed Banox.* Both difficulties were taken care of by Banox, for it has an inhibiting action on brine corrosion, and its high activity as a dispersing agent insured clean beds each time the tanks were regenerated.

Other problems involving "dirty" exchangers can be solved, for the facts are ascertained. Different solutions may be required, for example sterilization of the bed in a case of slime accumulation.

Paper Presented at Water Conference

B. Q. Welder, Hall engineer, presented a paper on "Gadgets" at the final session of the Fourteenth Annual Water Conference of the Engineers Society of West Virginia held in Pittsburgh on October 19, 20, 21. Co-authored by Dr. E. P. Partidge, Director of Hall Laboratories, the paper reports field observation of the performance of various devices claimed to be effective in treating water by non-chemical means. Reprints of the paper will be available after the proceedings of the Fourteenth Annual Water Conference" has been published.

Banox is a registered trademark.

HALL LABORATORIES, INC.—CONSULTANTS ON PROCUREMENT, TREATMENT, USE AND DISPOSAL OF INDUSTRIAL WATER

Stream Pollution Survey Cuts Waste Disposal Costs

In order to comply with state standards, a metal-plating plant in the midwest was contemplating the construction of a waste water installation with a capacity of 1,500,000 gpd.

Technical Information Program Covers 20 Years

Keeping clients informed is one of the continuing services of Hall Laboratories. During the past twenty years, reprints of nearly one hundred technical articles, papers and discussions have been sent to Hall clients all over the world. These reprints covered the latest developments in water treatment and allied fields, and ranged in subject matter from "Gaging and Sampling Water-Borne Industrial Wastes" to "Concentrating Films: Their Role in Boiler Scale and Corrosion Problems."

Some papers have been of such general interest that requests have come from many plants, not clients of Hall Laboratories, both in this country and abroad. For example requests for the paper on "Concentrating Films" have come from Canada, Venezuela, Argentina, England, Holland, India, Formosa, and the Philippines.

Industrial Water Problems Require Special Handling

There are no "stock answers" to industrial water problems. For information, write, wire or call Hall Laboratories, Inc., Hagan Building, Pittsburgh 30, Pa.

Water is your industry's most important raw material. Don't waste it.

A detailed study of the processes employed in the plant, conducted by Hall engineers in close co-operation with plant personnel, resulted in recommendations leading to a drastic reduction in the amount of waste requiring treatment. The practical outcome—a waste water treatment plant is being built with a capacity of only 250,000 gpd, now adequate for all requirements. Additional benefits are being realized through more efficient operation and the recovery and reuse of plating materials.

The solution of the problem of waste water disposal began with a study of process water use and the development of methods for its conservation and reuse. Since this plant had time to act before the state authorities put the pressure on, a complete study was made to supply an economical and effective result.

ASME Meeting in New York

Among papers to be presented at the 74th annual meeting of the ASME in New York are several sponsored by the Joint Research Committee on Boiler Feedwater Studies. Included is the paper, "Action of Boiler Water on Steel—Attack by Bonded Oxygen" by Kaufman, Trautman and Schnarrenberger of Hall Laboratories. Other papers cover corrosion by dissolved oxygen and the breakdown of amines in boiler water.