



BATTERY CLEANING

File No. 97

Section 6

OPERATION:

The old battery cleaning process was not efficient or economical, requiring five men with rubber gloves and acid, thousands of gallons of water and high energy costs to heat the blow dryers. The output was a disappointing 1600 batteries per 16 hour shift.

Industrial Cleaning Systems of Winnipeg designed a new system fashioned after a drive-thru car wash, minus the brushes. The batteries pass through the cleaning chamber after being filled with acid and tested. They are sprayed with 140°F soapy water from six specially placed nozzles, rinsed and cool air dried. This simple process has increased production to 4500 batteries in a 16 hour shift.

PROBLEM:

To find a more efficient cleaning process for batteries following acid fill.

SOLUTION:

Install a CAT PUMP in high pressure cleaning system.

SPECIFICATIONS:

CAT PUMPS Model	820
Pressure	1000 PSI
Flow	8 GPM
Temperature	140°F
Fluid	Water and Detergent
Duty Cycle.....	Continuous 16 hour shift
Drive.....	Electric Motor

BENEFITS:

- 64% production increase.
- Better cleaning accomplished.
- Drastic reduction in water consumption, energy costs and manpower.
- Less space required for new system.

Products described hereon are covered by one or more of the following U.S. patents 3558244, 3652188, 3809508, 3920356, 3930756 and 5035580

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