Frank M. Stump
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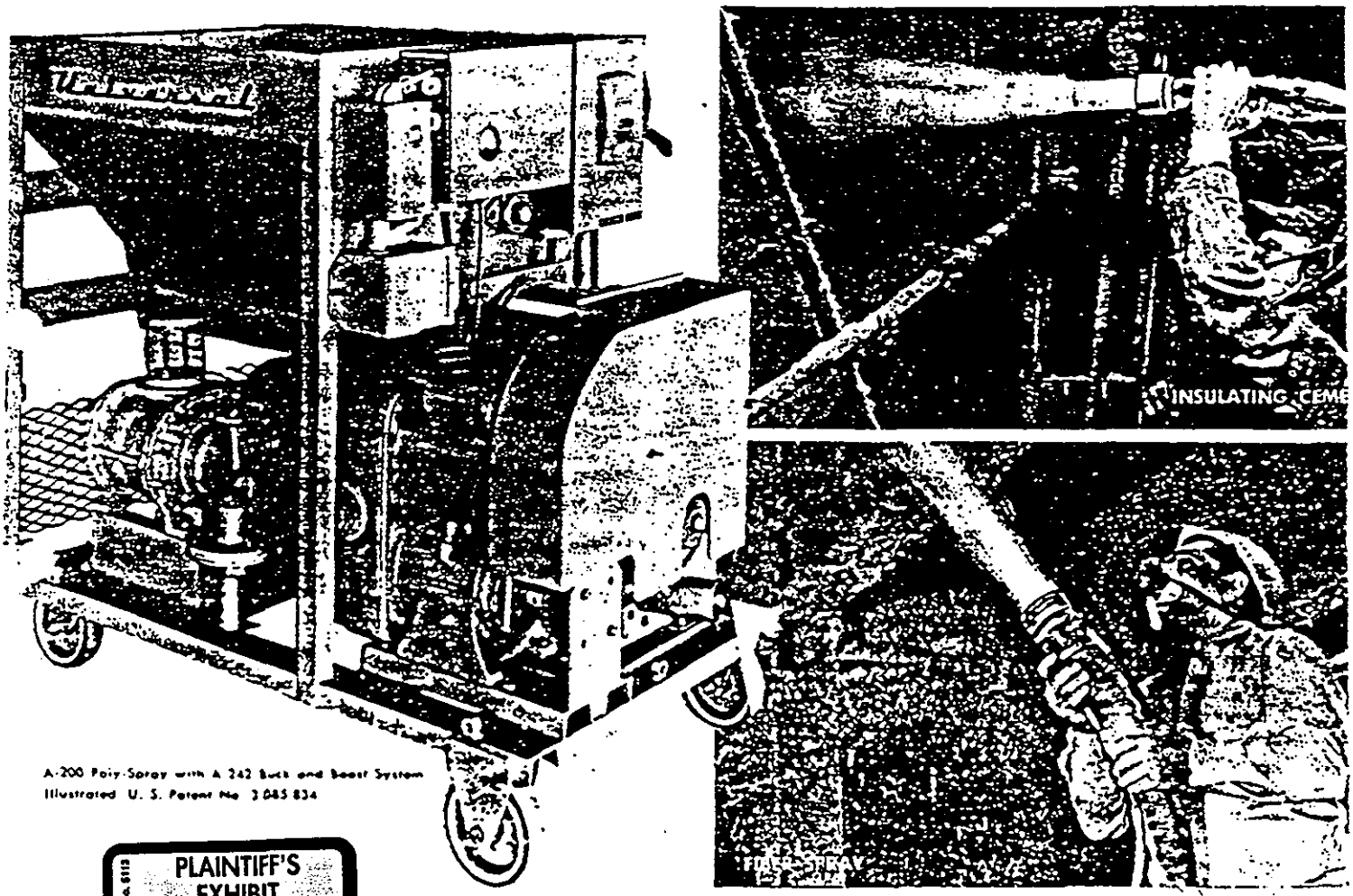
Universal

# A-200 POLY-SPRAY FIBER SPRAYING / INSULATING CEMENT MACHINE




A-200 Poly-Spray with A 242 Buck and Boost System
Illustrated U. S. Patent No 3 045 834

Blumberg No. 6113
PLAINTIFF'S EXHIBIT
USM-336

The A 200 Poly-Spray Machine pneumatically conveys and applies spray type fiber insulations for fireproofing, acoustical control, and condensation control; and high temperature insulating and finishing cements. A change of hose, nozzle, and gear ratio permits the A-200 to handle any type of spray applied insulation material. The insulating material is blown through the hose in a dry state and water is added by an atomizing nozzle at the end of the hose. Different nozzles are used, depending upon the type of material being applied. This machine is capable of conveying material vertically over 100 feet through 300 feet of hose — from bag direct to surface.

**PERFORMANCE:** The A-200 Poly-Spray gives you absolute maximum production when you need it. Fingertip controls on the machine and nozzle enable the operator to adjust the machine for the best coverage yield at any rate of production. Universal's patented feeder-shredder design makes possible, for the first time, high volume production without sacrificing coverage or finish.

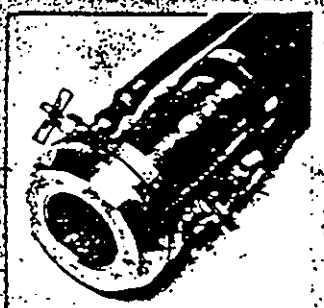
**VERSATILITY:** The A-200 is the only machine capable of conveying and applying any and all spray insulating materials ranging from light density spray fiber through finishing cements. This versatility is made possible through controls of feed rate, air volume, air pressure and shredding or carding time. The ability of this machine to do so many jobs means it will return your investment in a fraction of the time required by more limited machines.

**DEPENDABILITY:** The A-200 is built to withstand the hard service of construction site operation by your regular crews. Just plug it in, turn it on — it works! No specialists required! Every component is engineered for quality and assembled with the craftsmanship obtained through over 27 years of experience. The A-200 is designed to give you years of day in and day out operation with minimum attention and maintenance.

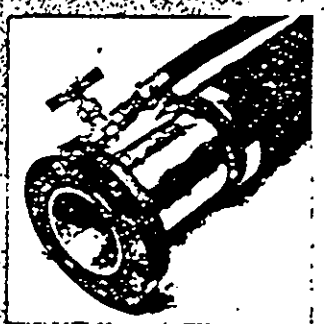
# SPECIFICATIONS and FEATURES — MODEL A-200 POLY-SPRAY



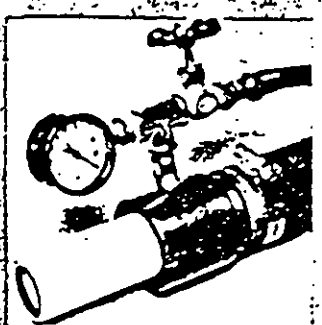
REAR VIEW
A-200 POLY-SPRAY



A-218 Fiber Gun, Compressed Air Type. This nozzle is used to moisten spray fiber insulations. The nozzle introduces compressed air into the water jets causing the water atomization required to properly moisten the fiber. These nozzles are available with 8, 12 or 16 holes.
(Requirements: Air — 65 PSI; Water — 40 PSI)



A-270 Uni-Jet and A-272 Vari-Jet Airless Nozzles. The Universal Uni-Jet and Vari-Jet series of nozzles perform the same function as the A-218, but without the use of compressed air. Atomization of the water is accomplished through specially designed water orifices. The A-270 and A-272 differ only in ranges of water output.
(Requirements at the Nozzle: Water — 65 PSI)



A-264 Uni-Whirl Gunning Nozzle. This nozzle is used to apply insulating and finishing cements. All wetting action takes place inside the nozzle in order to thoroughly wet the material and control dust. A unique water-ring inside the nozzle provides a solid curtain of water, allowing no material to pass and remain dry.
(Requirements at the Nozzle: Water — 100 PSI)

**OVER-ALL SIZE** — Base 29 in. x 50 in., Height 44½ in., Weight 785 lbs. (Shipping weight 820 lbs.)

**HOPPER CAPACITY** — 9.2 cubic feet.

**AIR SUPPLY** — Roots-Connersville AF-36, positive displacement blower.

**AIR PRESSURE RELIEF VALVE** — Pressure variable from 1 to 3.5 lbs. PSIG. The valve is adjustable to limit maximum pressure.

**CHECK VALVE** — A one-way, butterfly type check valve prevents material from being forced back into the blower.

**POWER SUPPLY FOR SHREDDER-FEEDER** — One HP variable gear-reduction drive, 4:1 ratio. Completely dust sealed motor, gear box and belt box.

**POWER SUPPLY FOR BLOWER** — Three HP TEFC motor, completely dust sealed.

**VARIABLE CONTROLS** —
FEED RATE: Dial control while machine is running.
AIR PRESSURE: Weight changes on pressure relief valve while machine is running.
AIR VOLUME: Adjustable from 80 to 140 CFM.

**REMOTE CONTROL** — Nozzleman turns flow of material on and off by use of a safe, waterproof, low-voltage switch.

**HOPPER AGITATION** — Slow, safe agitation forces material to flow into worm conveyor without the assistance of loading personnel.

**WORM FEED CONVEYOR** — Positive conveying of material to shredder at a uniform, pre-selected rate by worm gear conveyor.

**SHREDDER** — High speed cylindrical design receiving material from worm feed conveyor. Uniform particle size discharged to feeder in continuous flow. High strength shredder fingers. Completely enclosed with quick release access cover allowing easy removal of foreign materials entering the shredder.

**FEEDER** — All steel, long life rotor equipped with new abrasion resistant Unithane seals, custom selected for this application. Special drop-through trough and discharge design insure the ultimate in uniform feeding.

**SHEAR KEY** — Strategically located and readily replaceable. Designed to shear before any drive train member is excessively stressed if foreign objects enter the material passage.

**ELECTRICAL SERVICE REQUIREMENTS** — Machine requires three wire, grounded neutral, 230 volt, single phase service with 24 amper capacity.

**ENGINE PROTECTION** — Both motors protected separately by fustats which give running protection, prevent over fusing, but absorb starting current or short duration over-loads.

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