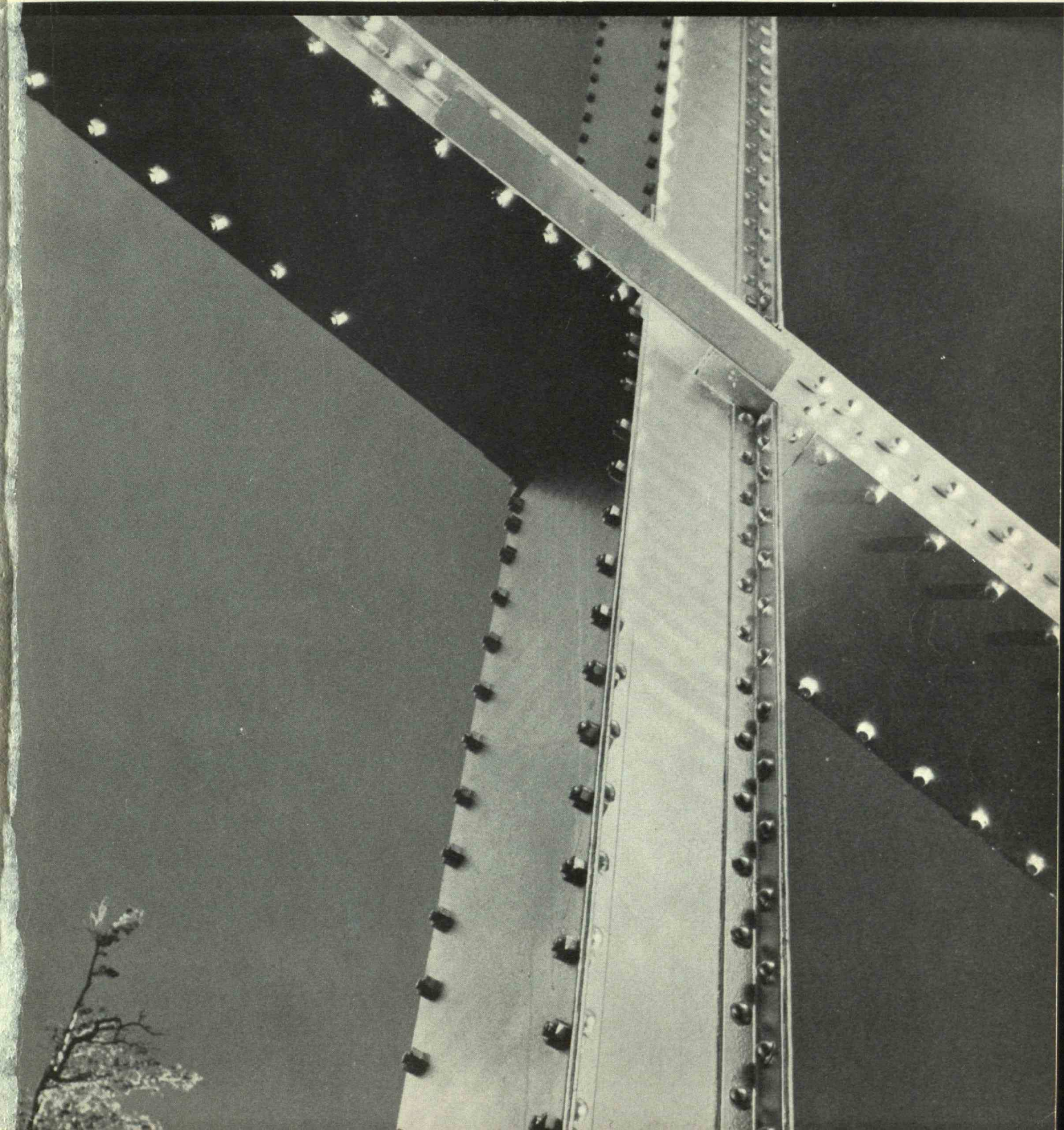


November 1947

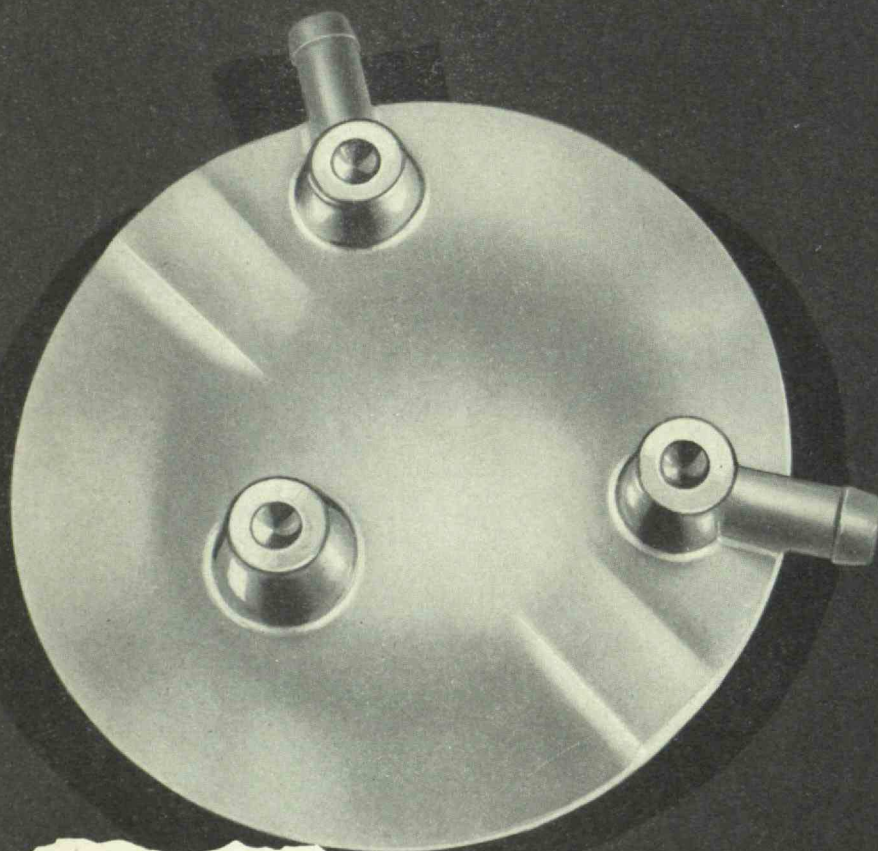
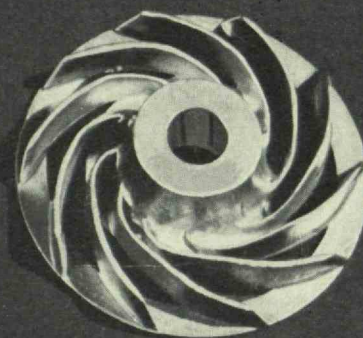
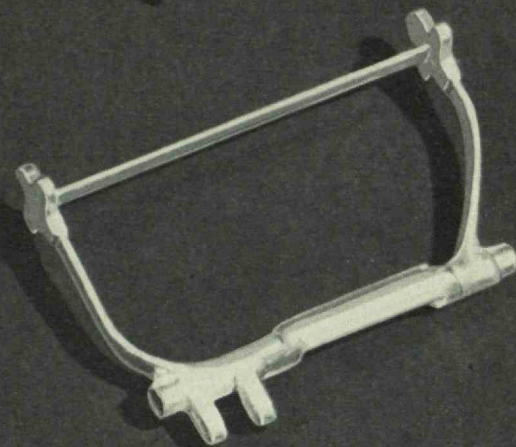
TECHNOLOGY REVIEW

Title Reg. in U. S. Pat. Office



Brass...

SMOOTH FORGED



**SIMPLE OR
INTRICATE**

THE **HARVEY**

METAL CORPORATION

• *Engineers & Manufacturers* •

74th STREET and ASHLAND AVENUE • CHICAGO 36, ILLINOIS

FORGINGS IN ALUMINUM • BRASS • BRONZE • COPPER • MAGNESIUM • MONEL • ALLOYS
MACHINING FACILITIES

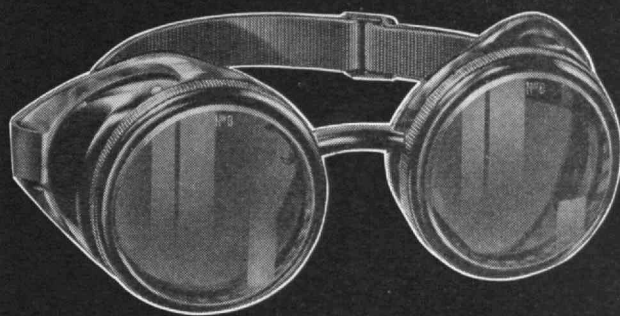
Why Safety Goggles are a Worthwhile Investment for Management



Yield of Industrial Bonds
Approximately **3%**



Yield of Common Stocks
4-7%



**"Yield" of
SAFETY
GOGGLES**

that prevent 98% of Eye Accidents

233%

Industrial eye accidents average \$5.00 per worker per year. Where else on an expenditure of \$1.50 (average cost of goggles) could you obtain a "return" of \$3.50—or 233% on your investment? Your AO Safety Representative has complete details about how an adequate eye protection program can cut *your* costs.

American  Optical
COMPANY

Safety
Division

SOUTHBRIDGE, MASSACHUSETTS • BRANCHES IN PRINCIPAL CITIES

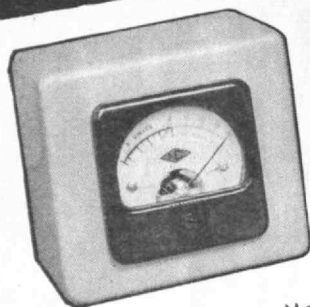
OUTSTANDING FEATURES

- Continuous frequency coverage from 550 kc. to 55 mc. Bandswitching in 5 ranges. Bandspeed tuning at any frequency.
- Seven tube superheterodyne (plus rectifier and voltage regulator).
- Automatic Noise Limiter.
- Built-in loudspeaker and A.C. power supply.
- R. F. stage with panel controlled antenna trimmer.
- Operates from 105-130 volts, 50-60 cycles A.C. (Provision for battery operation.)
- Housed in a streamlined gray cabinet.

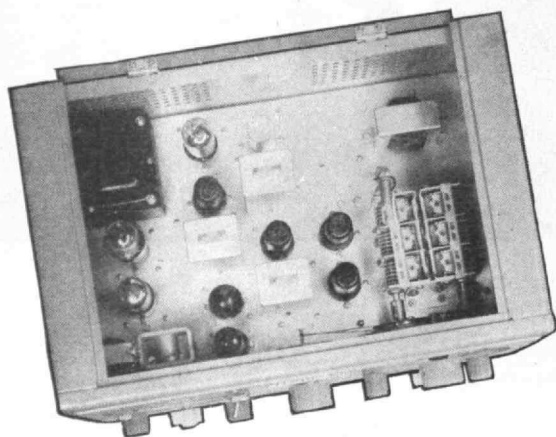
AMATEUR NET.....\$89.50



HERE IT IS—THE NEW NC-57



The SM-57 Signal Strength Meter has been designed as an accessory to be used in conjunction with the NC-57.



INTERIOR OF NC-57

To meet the needs of the many hams who have asked for a sensitive, first-rate bandswitching receiver in the lower price bracket, complete with speaker and power supply in one cabinet, the National Company has developed the brand-new NC-57.

The CW operator will enjoy the stable operation and excellent signal-to-noise ratio of the NC-57.

The phone operator will be pleased with the tone quality and selectivity.

The SWL will log DX stations with ease and clarity. In fact, any operator now operating a communications receiver will find the NC-57 essential as a standby.

In this price class, the new National NC-57 is an outstanding value. See and hear one at your local distributor's ham shack this week.

**National
Company, Inc.**
Dept. No. 18
Malden, Mass.

MAKERS OF LIFETIME RADIO EQUIPMENT

32 ALUNDUM

One Year Old



. . . And Every Bit as Good as Predicted

32 ALUNDUM abrasive has made good on every one of the Hollywood adjectives used to describe it a year ago. In plant after plant 32 ALUNDUM grinding wheels really are proving sensational — really do cut costs by:

**grinding faster
grinding cooler
having longer life
requiring fewer dressings**

32 ALUNDUM abrasive is entirely new — made differently by a Norton-invented and Norton-patented process.

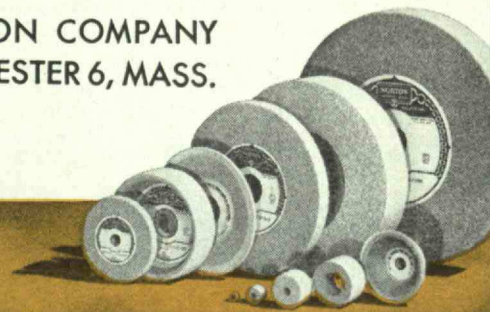
Each grain is a single, complete crystal — not crushed to size.

Each grain has many sharp points on all sides for faster, cooler cutting.

Each grain is over 99% pure fused alumina for greater resistance to dulling.

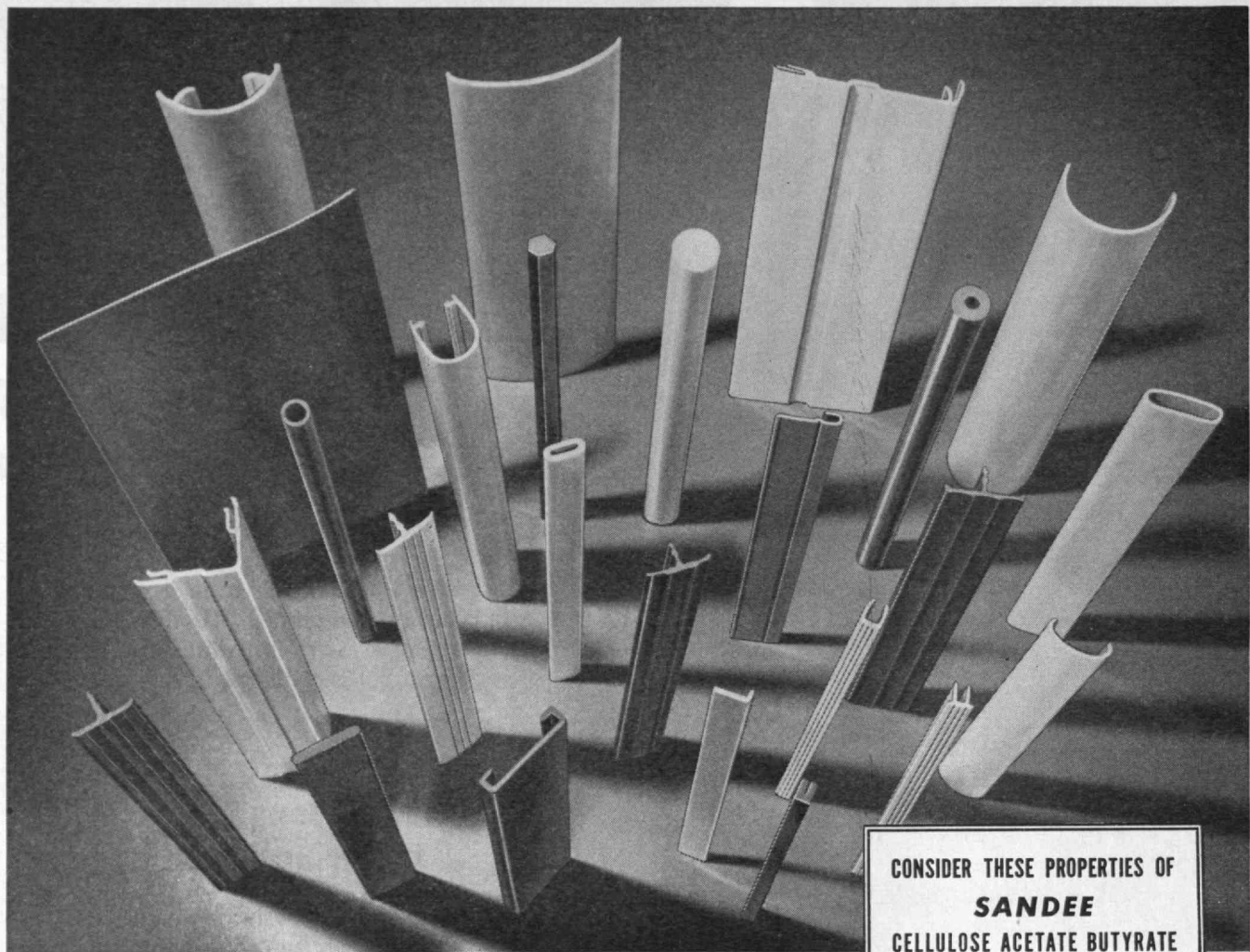
32 ALUNDUM wheels are available in *all standard sizes*. They can cut costs for you on cylindrical, centerless, surface, tool and internal grinding.

**NORTON COMPANY
WORCESTER 6, MASS.**



NORTON ABRASIVES

The Greatest Cost-cutting Development in Abrasives in Over Forty Years



CONSIDER THESE PROPERTIES OF
SANDEE
CELLULOSE ACETATE BUTYRATE

1. Specific Gravity —1.22
2. Tensile Strength —3000 to 5000 p.s.i.
3. Impact Resistance —Excellent at normal temperatures
4. Heat distortion—170° to 185°F.
5. Rigidity —Good to very good
6. Dimensional Stability —Good to very good
7. Water Absorption —1 to 2%
8. Burning Rate —Slow
9. Odor —Nil to faint
10. Color —Unlimited
11. Finish —Excellent
12. Machinability —Excellent

Sandee CELLULOSE ACETATE BUTYRATE *Extrusions*

7 HIS general purpose material, under the trade name TENITE II, has attained an excellent reputation for appearance and serviceability in widely diversified fields. This is not only true in injection molded and fabricated items but is equally true in Extruded Rods, Tubes, and simple and complicated shapes. Colorful, tough, easily machined and easily formed to fit specific contours, it is serving to complete satisfaction in fields ranging from rods and tubes for toys to furniture and refrigerator trim.

Study the properties of this excellent general purpose material, then check with *Sandee* for confirmation of suitability to your requirements. *Sandee's* practical know-how in extrusion often helps in altering designs for improvements in functional utility, appearance, and cost.

SALES REPRESENTATIVES IN 19 PRINCIPAL CITIES

Sandee Manufacturing Company

5050 FOSTER AVENUE • CHICAGO 30, ILLINOIS

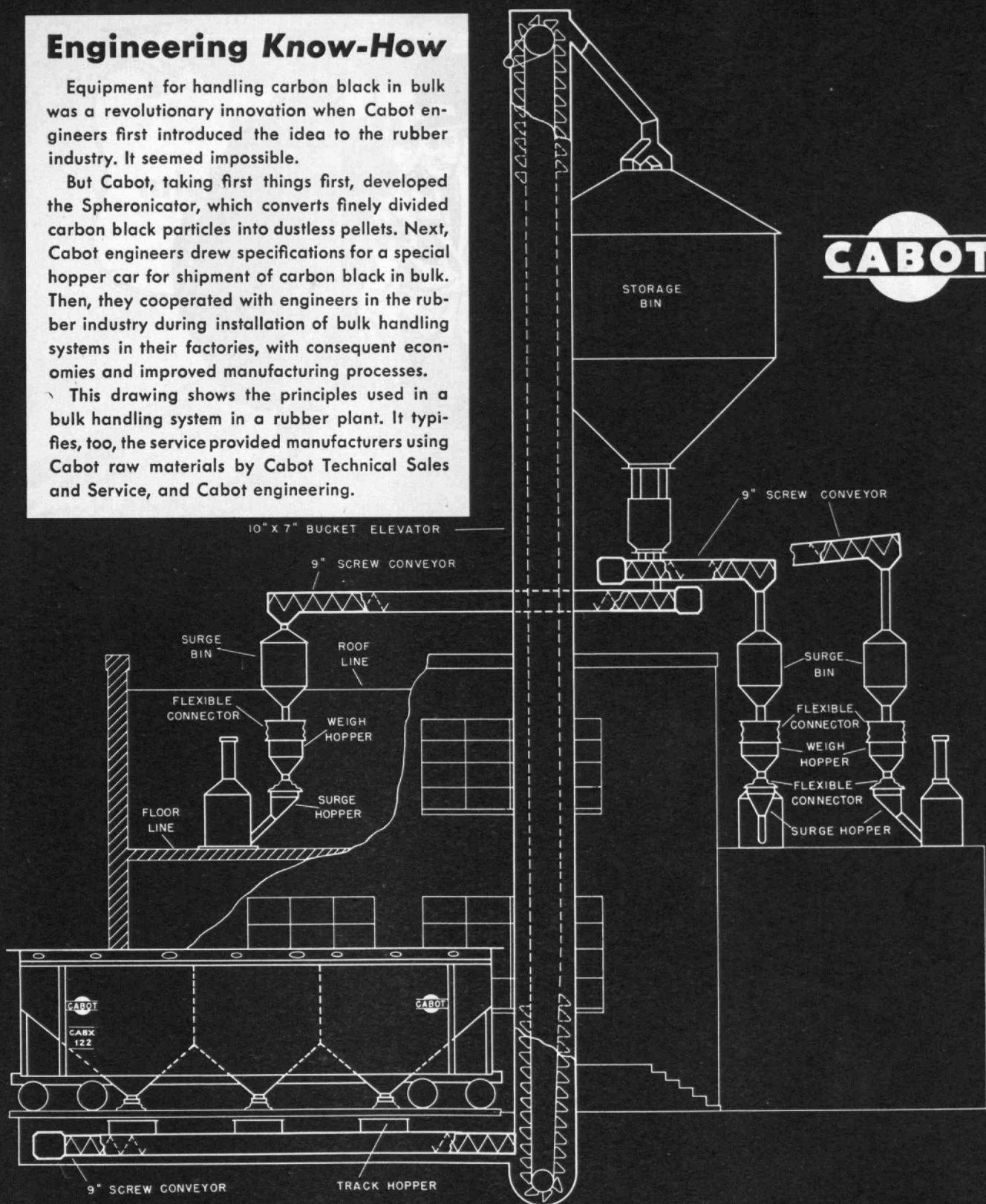
EXTRUDED PLASTICS AND SPECIAL TOOLS

Engineering Know-How

Equipment for handling carbon black in bulk was a revolutionary innovation when Cabot engineers first introduced the idea to the rubber industry. It seemed impossible.

But Cabot, taking first things first, developed the Spheronicator, which converts finely divided carbon black particles into dustless pellets. Next, Cabot engineers drew specifications for a special hopper car for shipment of carbon black in bulk. Then, they cooperated with engineers in the rubber industry during installation of bulk handling systems in their factories, with consequent economies and improved manufacturing processes.

This drawing shows the principles used in a bulk handling system in a rubber plant. It typifies, too, the service provided manufacturers using Cabot raw materials by Cabot Technical Sales and Service, and Cabot engineering.



GODFREY L. CABOT, INC.

77 Franklin Street, Boston 10, Mass.



AFTER YOU GET BACK FROM THE SHOW... *don't get off this one train of thought*

Don't sidetrack all those ideas on new products, markets and cost-reduction which you brought back, red hot, from Chicago — just because you lack plant facilities, equipment, or hours in the day.

Take your new ideas — or your bothersome old problems—to Taft-Peirce, where you will find all these services and products at your ready command:

Engineering, Tooling, Contract Manufacturing: To your specs or blueprints, the T-P Contract Division will tool and produce anything from a single tool or part to complete mechanisms in lots of any quantity.

Special Gear Cutting & Grinding, Thread Milling & Grinding: A new department with ample capacity for cut or ground gears and threads of all types.

Standard Machine Tools: The No. 1 Precision

Surface Grinder and the 6" Rotary Surface Grinder for high precision and fine finish on small flat work. The New Taft-Peirce Spline and Gear Grinder. The Taft-Peirce Back Spot Facing Machine.

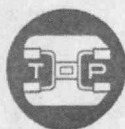
Production and Inspection Tools: Sine bars and fixtures, squares, surface plates, bench centers, angle-measuring equipment, etc.

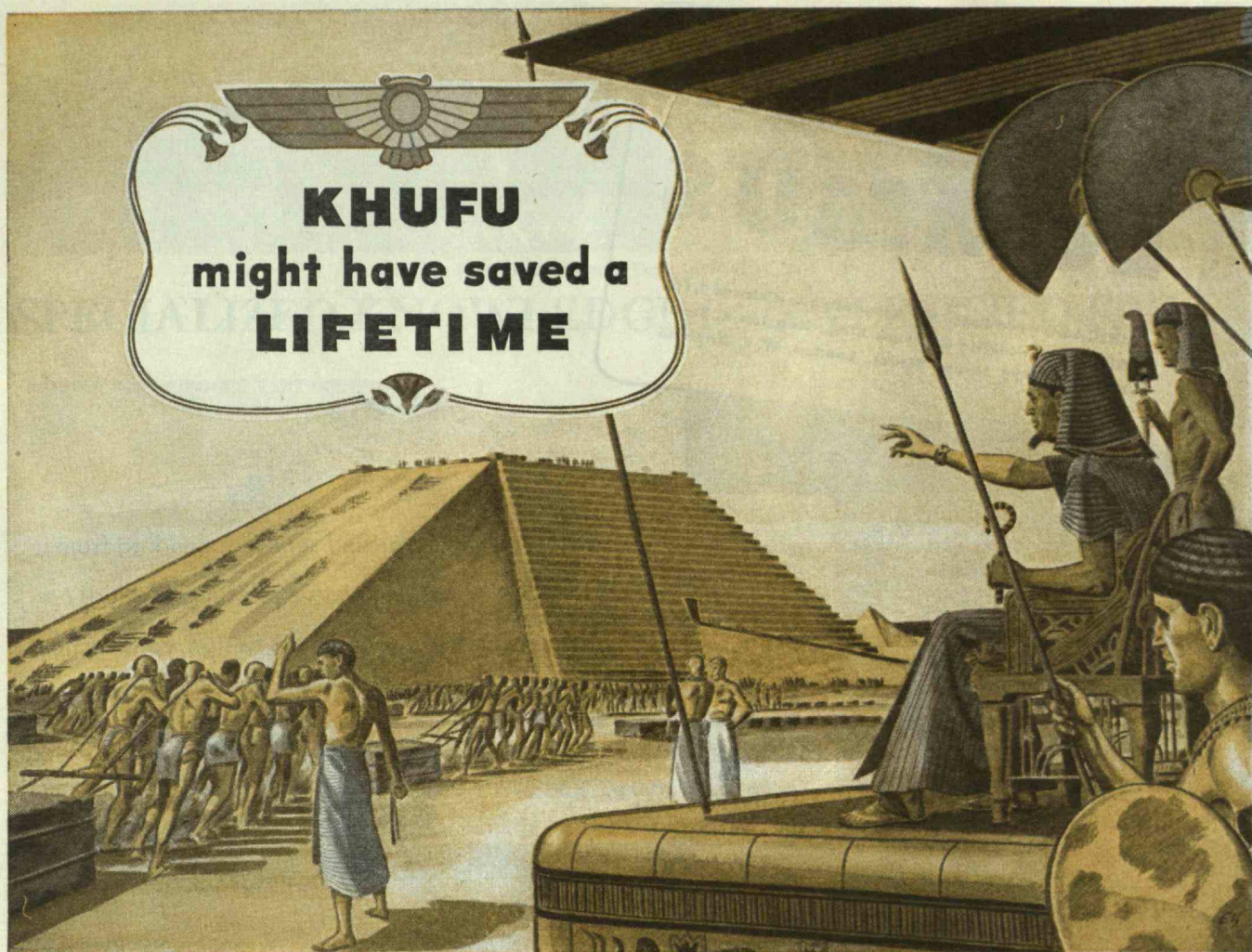
Standard & Special Gages: All types of AGD Standard plain and thread plug, ring, and snap gages. Special designs to specification. The new Taft-Peirce CompAIRator air gage.

Magnetic Chucks: Rectangular, rotary, and tilting-base chucks of exclusive T-P SUPER-POWER design. Magnetic V-blocks and angle plates.

Write to The Taft-Peirce Mfg. Co., Woonsocket, R. I.

... for Engineering, Tooling, Contract Manufacturing
TAKE IT TO TAFT-PEIRCE





KHUFU
might have saved a
LIFETIME

KING KHUFU had only *slave-power* with which to build the greatest of the pyramids. With engine-power, he might have saved a lifetime and the lives of 300,000 slaves.

Today, mightier and much more useful structures spring from dream to drawing board to reality in relatively short spans of time. Modern construction equipment powered by internal-combustion engines makes this possible. For today, the machine is the slave of man. Great dams, soaring bridges, towering buildings and broad highways are ours without backbreaking toil and wasted flesh and blood.

AMERICAN BOSCH CORPORATION, SPRINGFIELD 7, MASS.



PARTNERS IN THE PROGRESS OF POWER

American Bosch works closely with and for the internal-combustion-engine industry in three vital ways:

ENGINEERING. 1,200,000 *man-hours* of it have been poured into Diesel Fuel Injection alone—other millions into Ignition.

PRODUCTION. *Premium performance* has been a consistent goal in the production of hundreds of thousands of Diesel injection systems and millions of electrical units.

MAINTENANCE. *The world over*, American Bosch authorized service stations keep the equipment operating efficiently.

AMERICAN BOSCH

DIESEL FUEL INJECTION • AUTOMOTIVE AND AVIATION ELECTRICAL PRODUCTS

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LUMMUS

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LONDON—78 Mount Street, London, W. 1, England

—an integrated service extending from engineering surveys of existing facilities and economic studies to the design, construction and initial operation of refinery process units and chemical manufacturing plants.

High Octane Gasoline Plants, Including Catalytic Cracking, Combination Thermal Cracking and Thermal Polymerization Units.

