

41107

MARK WORTHINGTON

FEB 19 1957

Class 23
Type of Mark

Serial No. (Series 1956)

9835

Applicant

WORTHINGTON CORPORATION DEL. CORP.
WORTHINGTON PUMP, INC
MOUNTAIN SIDE,
N.J.

Address

401 WORTHINGTON AVE., HARRISON, N.J.

Assignor to

Goods—Services PUMPS, COMPRESSORS, BLOWERS, EJECTORS, INTERNAL COMBUSTION ENGINES ETC.

\$300.00 → SEP 23 1986

Application JUN 7 1956

Verification JUN 7 1956

Specimens APR 30 1956

Filed APR 30 1956

Filed Complete Prin. Reg.

JUN 7 1956

Filed Complete*Supp. Reg.

Section 2 (1)

Passed for Registration

JAN 21 1957

Passed for Publication

NOV 7 1956 P-P

Affidavit Sec. 8

Platerba

Affidavit Sec. 15

Passed for Renewal

M. E. Bowman

Renewed

Feb. 19, 1977

RENEWED

Feb. 19, 1997

EXAMINED FOR RENEWAL
Representative
W. H. Sill

Attorney

~~DANIEL H. BOBIS, 401 WORTHINGTON AVE., HARRISON, N.J.~~

Associate Attorney

Robert
71 Academy St., Newark, N.J. 07102

Other Data

1. C. 7

Goods—Services

See Mountain Side

Claims Ownership of Registration

First Use

IN THE YEAR 1845

In Commerce

IN THE YEAR 1875

24 MAY 1977

PUBLISHED IN O

DEC 4 1956

J. S. PATENT OFF

ASSIGNMENT FOR TRADEMARK REGISTRATION NUMBER: 0641707 PAGE: 1

REEL: 1006 FRAME: 0450 DATE RECORDED : 07/28/1993
REGISTRANT: NORTHINGTON CORPORATION

ASSIGNOR: DRESSER-INDUSTRIES, INC. DATE SIGNED : 10/01/1992
ADDRESS : DATE ACKNOWLED: 00/00/0000
ENTITY : CORPORATION CITIZENSHIP: DELAWARE

ASSIGNEE: INGERSOLL-DRESSER PUMP COMPANY

ADDRESS : ALLEN CENTER, SUITE 102

150 ALLEN ROAD

LIBERTY CORNER, NJ 07938

ENTITY : A GENERAL PARTNERSHIP

CITIZENSHIP: DELAWARE

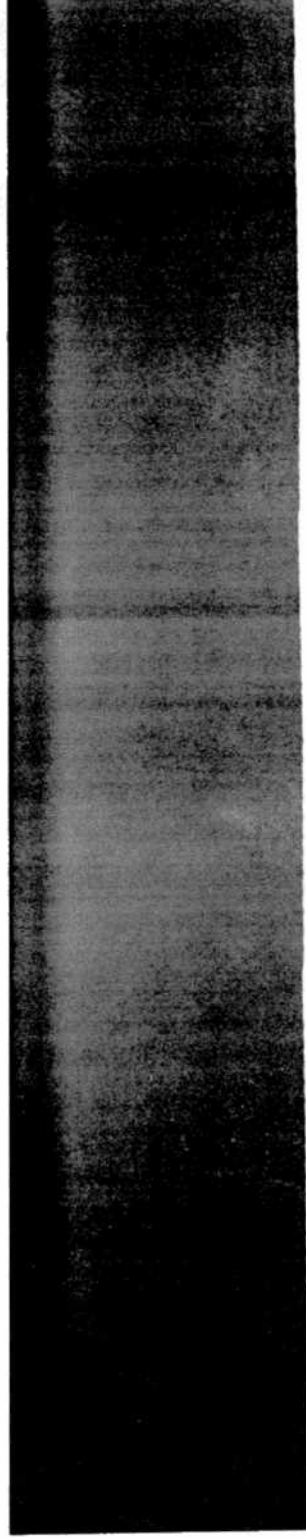
BRIEF: ASSIGNS THE ENTIRE INTEREST AND THE GOODWILL

(46)

ASSIGNMENTS RECORDED PRIOR TO 1/1/55 ARE NOT CONTAINED IN THIS DATA BASE.

LAST PAGE. ENTER 'P' HERE TO PAGE BACKWARDS:
FOR A NEW SEARCH ENTER TRANSACTION CODE AND SEARCH
STRATEGY HERE:

11/19/96 16:15



ASSIGNMENTS

REG. NO. 641,707
SER. NO.

No previous assignments of record as of 8/22/85
 See Title Record for ownership information prior to this record

Serial No.	411	835	Feb. 19, 1957	641,707
	Reel	Frame	Registration Date	Reg. No.
Date	(Trade-Mark)		Date Recorded	
Dec. 29, 1980	Ack.		Dec. 31, 1980	
Registrant Worthington Corporation WORTHINGTON PUMP INC.				
Assignee a corp. of Del. STUDEBAKER-WORTHINGTON, INC. One Continental Towers, 1701 Golf Road Rolling Meadows, Ill., a corp. of Del.				
Brief Recorded as a document relating to title of this registration. See decision of Assistant Commissioner Margaret M. Lawrence Dec. 31, 1980				

Serial No.	503	588	Feb. 19, 1957	641,707
	Reel	Frame	Registration Date	Reg. No.
Date	(Trade-Mark)		Date Recorded	
12/22/84	Ack. 2/15/85		AUG. 23, 1985	
Registrant Worthington Corporation				
Assignor EDISON INTERNATIONAL, INC. One Continental Towers, 1701 Golf Rd., Rolling Meadows, Ill. 60008, a corp. of Del.				
Assignee DRESSER INDUSTRIES, INC. 1505 Elm St., Dallas, Texas 75201 a corp. of Del.				
Brief Assigns the entire interest and the good will				

10/21/85
JL

641,707

ASSIGNMENTS

9/30/60
JUN 14 1962

No previous assignments of record as of JUN 14 1962
 See Title Record for ownership information prior to this record

Serial No.	159	661	641,707
	Reel	Frame	Reg. No.
	(Trade-Mark)		
Date	Dec. 19, 1967	Date Recorded	Feb. 29, 1968
Registrant	Worthington Corporation		
Assignor	Worthington Corporation		
Assignee	Barrworth, Inc.		
Brief	Certificate by the Secretary of State of Delaware showing change of name filed Nov. 27, 1967.		

Serial No.	159	662	641,707
	Reel	Frame	Reg. No.
	(Trade-Mark)		
Date	Nov. 27, 1967 Ack.	Date Recorded	Feb. 29, 1968
Registrant	Worthington Corporation		
Assignor	Barrworth, Inc., Harrison, N.J., a 1967 Delaware corp.		
Assignee	Worthington Corporation, Harrison, N.J., a 1967 Delaware corp.		
Brief	Assigns its entire interest, and the good will.		

Serial No.	302	986	641,707
	Reel	Frame	Reg. No.
	(Trade-Mark)		
Date	Jan. 18, 1977 Ack.	Date Recorded	Feb. 28, 1977
Registrant	Worthington Corporation		
Assignor	WORTHINGTON CORPORATION 401 Worthington Avenue Harrison, N.J. 07029, a Del. corp.		
Assignee	WORTHINGTON PUMP, INC. 270 Sheffield Street Mountainside, N.J. 07092, a Del. corp.		
Brief	Assigns its entire interest and the good will.		

Serial No.	383	112	641,707
	Reel	Frame	Reg. No.
	(Trade-Mark)		
Date	Jan. 5, 1981 Ack.	Date Recorded	Jan. 6, 1981
Registrant	Worthington Corporation		
Assignor	STUDEBAKER-WORTHINGTON, INC. a corp. of Del.		
Assignee	EDISON INTERNATIONAL, INC. One Continental Towers, 1701 Golf Rd. Rolling Meadows, Ill. a corp. of Del.		
Brief	Assigns the entire interest and the good will		

United States Patent Office

641,707

Registered Feb. 19, 1957

PRINCIPAL REGISTER Trademark

Ser. No. 9,835, filed June 7, 1956

WORTHINGTON

Worthington Corporation (Delaware corporation)
401 Worthington Ave.
Harrison, N. J.

For: PUMPS, COMPRESSORS, BLOWERS, EJECTORS, INTERNAL COMBUSTION ENGINES, COMMINUTORS, CONDENSING AND EVAPORATING APPARATUS, ACCUMULATORS, OIL SEPARA-

TORS, BOILER FEEDWATER APPARATUS, MACHINERY, APPARATUS AND VALVE ELEMENTS FOR RAISING, FORCING, CONTROLLING AND REGULATING FLOW OF LIQUIDS, GASES OR STEAM, in CLASS 23.

First use in the year 1845; in commerce in the year 1875.

Sec. 2(f).

COMB. AFF. SEC. 8 & 15

AUG 13 1962

United States Patent Office

641,707

Registered Feb. 19, 1957

PRINCIPAL REGISTER Trademark

Int. Cl.: 7

Prior U.S. Cl.: 23

Reg. No. 641,707

United States Patent and Trademark Office

Registered Feb. 19, 1957

10 Year Renewal

Renewal Term Begins Feb. 19, 1997

TRADEMARK PRINCIPAL REGISTER

APPARATUS, MA-
TERIALS, ELEMENTS
CONTROLLING AND
VALVES, GASES OR

Pressure in the year

WORTHINGTON

INGERSOLL-DRESSER PUMP COMPAN-
Y (PARTNERSHIP)
150 ALLEN ROAD SUITE 102
LIBERTY CORNER, NJ 07938, BY
CHANGE OF NAME, ASSIGNMENT,
ASSIGNMENT, ASSIGNMENT, DECI-
SION OF ASS'T COMMISSIONER, AS-
SIGNMENT AND ASSIGNMENT
FROM WORTHINGTON CORPORA-
TION (DELAWARE CORPORATION)
HARRISON, NJ

SEC. 2(F).

FOR: PUMPS, COMPRESSORS, BLOW-
ERS, EJECTORS, INTERNAL COMBUS-

TION ENGINES, COMMUNITORS, CON-
DENSING AND EVAPORATING APPA-
RATUS, ACCUMULATORS, OIL SEPA-
RATORS, BOILER FEEDWATER APPA-
RATUS, MACHINERY, APPARATUS
AND VALVE ELEMENTS FOR RAIS-
ING, FORCING, CONTROLLING AND
REGULATING FLOW OF LIQUIDS,
GASES OR STEAM, IN CLASS 23 (INT.
CL. 7).

FIRST USE 0-0-1845; IN COMMERCE
0-0-1875.

SER. NO. 72-009,835, FILED 6-7-1956.

COMB. AFF. SEC. 8 & 15

FEB 13 1962

*In testimony whereof I have hereunto set my hand
and caused the seal of The Patent and Trademark
Office to be affixed on Jan. 14, 1997.*

COMMISSIONER OF PATENTS AND TRADEMARKS

3 23

9835

WORTHINGTON CORPORATION
401 WORTHINGTON AVENUE
HARRISON, NEW JERSEY

Date of first use 1845

Pumps, Compressors, Internal
Combustion Engines, Condensing and
Evaporating Apparatus, etc.

FILFD

JUN 7 1956

WORTHINGTON

B 140

641707

REGISTERED

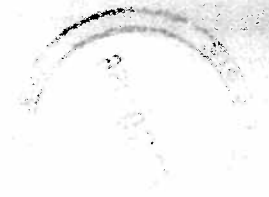
FEB 19 1957

Handwritten mark

PUBLISHED IN O. G.

DEC 4 1956

S. PATENT OFFICE





UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

REGISTRATION NO. 0641707

SERIAL NO. 72/009835

PAPER NO.

MAILING DATE: 12/10/96

MARK: WORTHINGTON

REGISTRANT: INGERSOLL-DRESSER PUMP COMPANY

CORRESPONDENCE ADDRESS:

DONALD W WALK
INGERSOLL-RAND COMPANY
PATENT DEPARTMENT
942 MEMORIAL PARKWAY
PHILLIPSBURG NJ 08865

Please furnish the following
in all correspondence:

1. Your phone number and zip code.
2. Mailing date of this action.
3. Affidavit-Renewal Examiner's name.
4. The address of all correspondence not containing fees should include the words "Box 5".
5. Registration No.

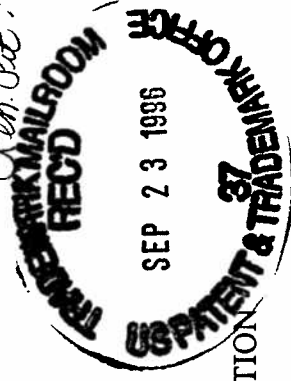
RECEIPT IS ACKNOWLEDGED OF THE SUBMITTED REQUEST UNDER:

SECTION 9 OF THE TRADEMARK ACT AND 37 CFR SECS. 2.181-2.184.

YOUR REQUEST FULFILLS THE STATUTORY REQUIREMENTS AND RENEWAL HAS BEEN GRANTED.

CATHERINE HILL
AFFIDAVIT-RENEWAL EXAMINER
TRADEMARK EXAMINING OPERATION
(703) 308-9500 EXT. 136

IN THE UNITED STATES PATENT
AND TRADEMARK OFFICE



APPLICATION FOR RENEWAL OF REGISTRATION

Mark: WORTHINGTON
Registration No.: 641,707
Int'l. Class: 07

To the Commissioner of
Patents and Trademarks:

SIR:

PLW
146 INGERSOLL-DRESSER PUMP COMPANY, a general partnership of Ingersoll-Rand Company, a New Jersey corporation, and Dresser Industries, Inc., a Delaware corporation, said partnership being governed by the Uniform Partnership Act of the State of Delaware, is doing business at Allen Center, 150 Allen Road, Suite 102, Liberty Corner, New Jersey 07938.


The above identified registrant requests that the above-identified registration granted on February 19, 1957 to Worthington Corporation, a Delaware corporation, which registrant now owns, as shown by records in the Patent and Trademark Office, be renewed in accordance with the provisions of Section 9 of the Act of July 5, 1946.

The mark shown in said registration is still in use in interstate commerce on all the goods recited in the registration.

A specimen showing the mark as currently used in commerce is attached.

SEP 23 1996
PLW

Applicant hereby appoints Donald W. Walk, John J. Selko, Walter C. Vliet, John C. Bigler, Michael H. Minns, Robert F. Palermo and Michael M. Gribus, members respectively of the bars of the State of Wisconsin, the Commonwealth of Pennsylvania, the State of New Jersey, the State of Michigan, the State of Ohio, the Commonwealth of Pennsylvania and the Commonwealth of Pennsylvania, with offices at Patent Department, Ingersoll-Rand Company, Phillipsburg, New Jersey 08865, telephone number (908) 859-7700, to prosecute the application for renewal, to register, to transact all business in the Patent and Trademark Office in connection therewith, and to receive the Certificate of Renewal.

 All communications are to be addressed to Donald W. Walk, Patent Department, Ingersoll-Rand Company, 942 Memorial Parkway, Phillipsburg, New Jersey 08865.

I, A. Fruchtmann, declare that I am Vice President of registrant partnership and am authorized to make this declaration on behalf of said partnership; that the foregoing statements are true; and further that these statements were made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of this application and any renewed registration resulting therefrom.

Signed at Liberty Corner, N.J., this 16th day of September, 1996.

INGERSOLL-DRESSER PUMP COMPANY

By: 

A. Fruchtmann, Vice President



1000

TRADEMARK MAILROOM
RECD
OCT 2 3 1996
AS
US PATENT & TRADEMARK OFFICE

TRADEMARK MAILROOM
RECD
OCT 2 3 1996
AS
US PATENT & TRADEMARK OFFICE

TRADEMARK MAILROOM
RECD
OCT 2 3 1996
AS
US PATENT & TRADEMARK OFFICE

INGERSOLL-RAND

September 19, 1996

Box POST REG FEE
Assistant Commissioner for Trademarks
2900 Crystal Drive
Arlington, VA 22202-3513

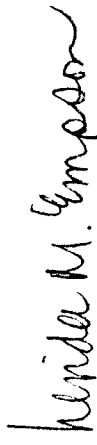
RE: Trademark: WORTHINGTON
U.S. Registration No.: 641,707
Application for Trademark Renewal
Our Ref.: TM 1369/USA

Sir:

Enclosed is an Application for Trademark Renewal in one class, duly executed by Applicant, together with a specimen showing the mark as currently used.

The application fee of \$300.00 is to be charged to Deposit Account No. 09-0260, Ingersoll-Rand Company. Duplicate copies of this authorization to charge the above-fee as applied to this application is attached.

Very truly yours,

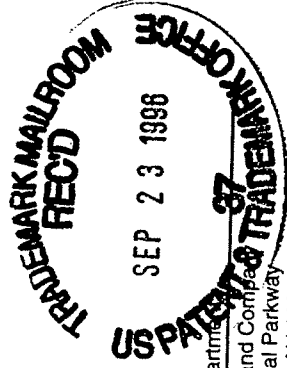


Linda M. Empson
Trademark Supervisor

lme/dmr
09-01/96wp

Enclosures

Application, Renewal
Specimen
Postcard



Patent Department
Ingersoll-Rand Company
942 Memorial Parkway
Phillipsburg, NJ 08865 USA
(908) 859-7700
Fax: (908) 859-7707



2500-202-1A16
5.0-203-1A16
3

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
APPLICATION FOR RENEWAL

MARK: WORTHINGTON
REG. NO: 641,707
CLASS: 23 (Int. Cl.)

TO THE COMMISSIONER OF
PATENTS AND TRADEMARKS
WASHINGTON, D.C. 20231

Dear Sir:

WORTHINGTON PUMP, INC.

a Delaware Corporation, having a business office and situs at:

270 Sheffield Street
Mountainside, New Jersey 07092

The above identified Applicant requests that Registration 641,707 granted to Worthington Corporation a 1937 Delaware Corporation located at 401 Worthington Avenue, Harrison, New Jersey 07029 on February 19, 1957 which Corporation changed its name to Harrworth Inc. and thereafter transferred said Registration 641,707 to a newly formed Worthington Corporation, the 1967 Delaware Corporation located at 401 Worthington Avenue, Harrison, New Jersey 07029 which last mentioned Corporation assigned and transferred the same Registration 641,707 to the Applicant and by reason of which, Applicant now owns the same as is shown by the records in the U.S. Patent Office; be renewed in accordance with the provisions of Section 9 of the Act of July 5, 1946;

The renewal fee of \$25.00 and additional fee of \$5.00 is presented herewith.

Applicant hereby appoints DANIEL H. BOBIS, Registration No. 16,694 and NORMAN N. POPPER, Registration No. 14,792; members of the Bar of the State of New Jersey and of the firm of POPPER & BOBIS: its attorneys, to prosecute this application to renew

03/17/77 0641707
03/17/77 0641707

3 202 25.00CK
3 203 5.00CK



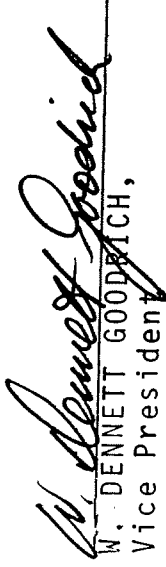
Applicant's said Registration, to transact all business in the Patent Office in connection therewith, and to receive the Notice and Certificate of Renewal thereon. Please direct all correspondence to DANIEL H. BOBIS, ESQ., POPPER & BOBIS, 17 Academy Street, Newark, New Jersey 07102.

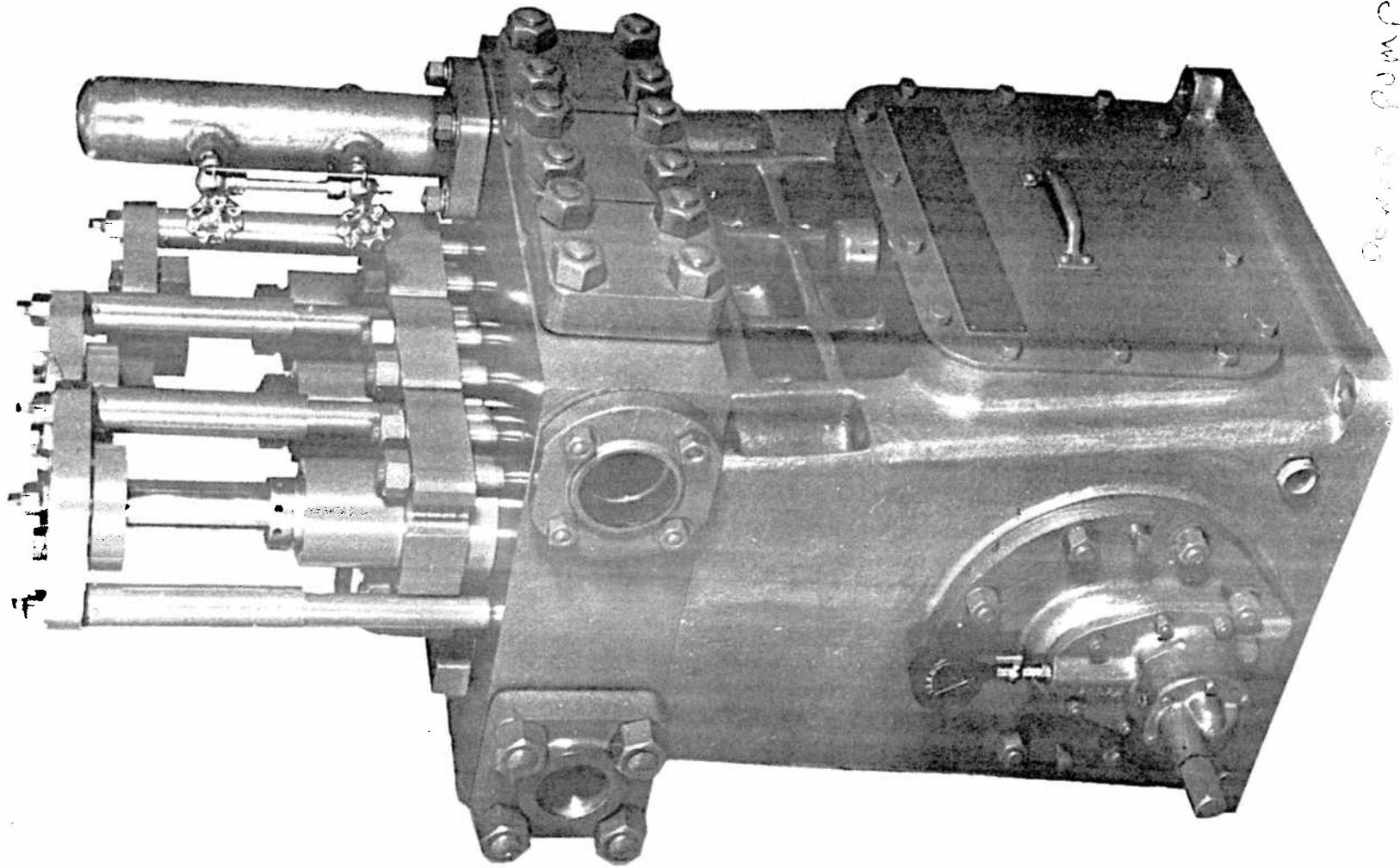
W. DENNETT GOODRICH, declares that he is a Vice President of Worthington Pump Inc., a Corporation of the State of Delaware, the Applicant herein and is authorized to make this Declaration on behalf of the Applicant Corporation. The said Applicant Corporation owns Registration No. 641,707; that the mark shown therein is in use in Interstate Commerce on certain of the goods recited in the said Registration identified as follows:

PUMPS, EJECTORS, COMMUNOTORS, CONDENSING AND EVAPORATING APPARATUS, ACCUMULATORS, BOILER FEEDWATER APPARATUS, APPARATUS AND VALVE ELEMENTS FOR RAISING, FORCING, CONTROLLING AND REGULATING FLOW OF LIQUIDS, GASES OR STEAM,

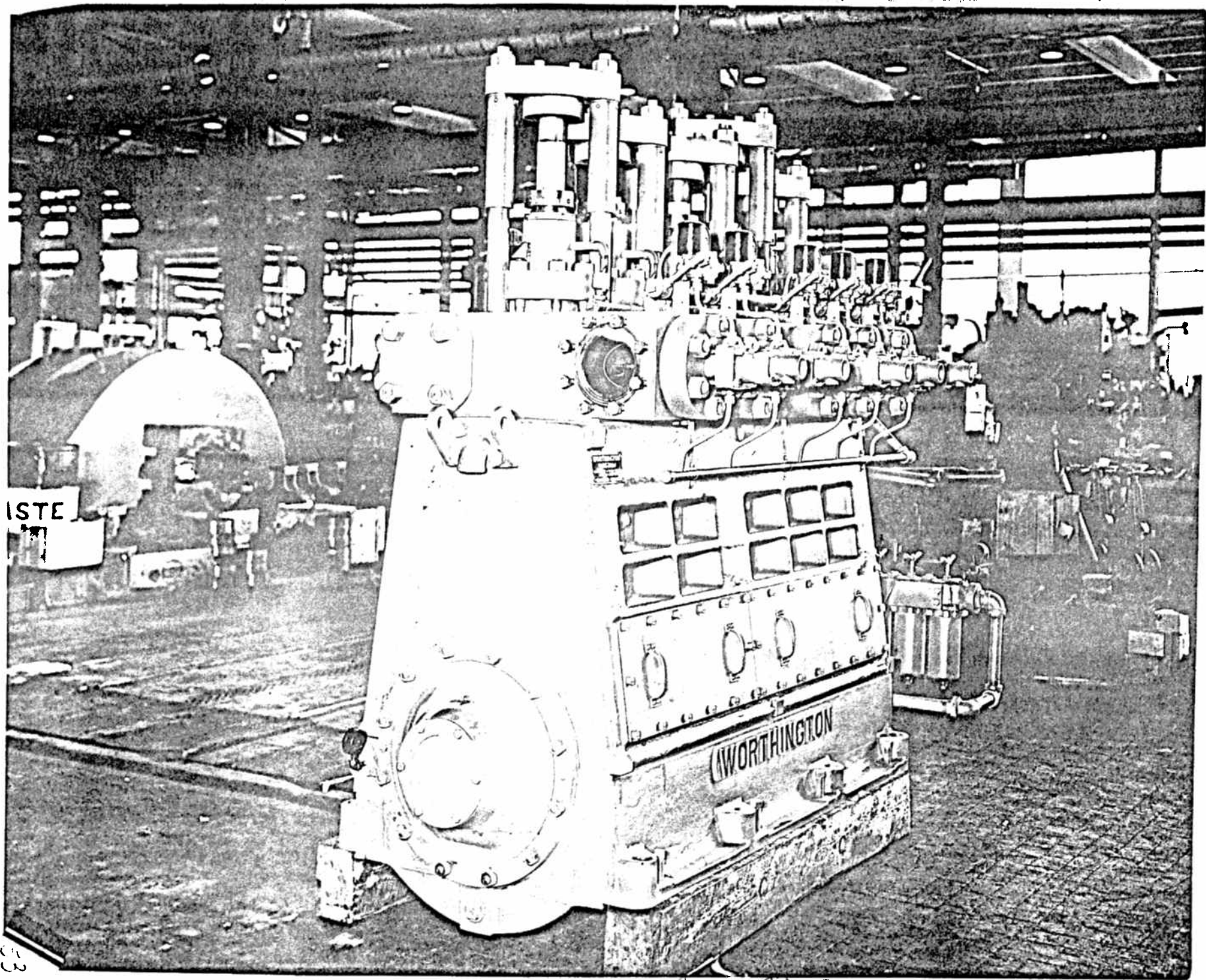
and the attached specimens and the bulletins show the trademark as currently used on the goods; that all statements made herein of his own knowledge are true or are believed to be true to the best of his knowledge; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and such willful false statements may jeopardize the validity of the application or document or any renewal registration resulting therefrom.

DATED: January 18, 1977
(2/18/77)


W. DENNETT GOODRICH,
Vice President



Power Pump

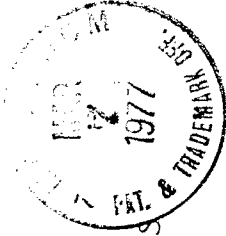


ASTE

WORTHINGTON

33

Power Pump



POPPER & BOBIS
ATTORNEYS AT LAW

NORMAN N. POPPER
DANIEL H. BOBIS
REGISTERED PATENT ATTORNEYS

17 ACADEMY STREET, SUITE 1000
NEWARK, NEW JERSEY 07102
(201) 623-1000

CABLE ADDRESS: NORLAW

March 3, 1977

Commissioner of Patents
and Trademarks
Washington, D.C. 20231

Re: File 06231
Application for Renewal
US Reg. No. 641,707
TM "Worthington"

Dear Sir:

Enclosed please find the following:

1. Application for Renewal of T.M. Registration
"Worthington".
2. Specimens as follows:
 - a. Miscellaneous photographs of Power Pumps.
 - b. Bulletin 2021-B2A Worthington Fire Pumps.
 - c. Bulletin 2141-B1 Horizontal Centrifugal
Condensate Pumps.
 - d. Bulletin W-111-B16A Worthington Horizontal
Steam Pump and Receiver Sets.
 - e. Miscellaneous photographs-other products.
3. Filing fee \$25.00 plus late fee \$5.00-Total \$30.00
4. Post Card.

Very truly yours,

Daniel H. Bobis

DHB/ms

Enclosure

REGISTRATION NO.

641,707

ISSUED FEB 19, 1957

RECEIPT IS HEREBY ACKNOWLEDGED OF THE AFFIDAVIT FILED

BY WORTHINGTON CORPORATION

BAB

ON JUL 13, 1962

SEC. 8 - AFFIDAVIT ACCEPTED

SEC. 15 - AFFIDAVIT FILED

BY DIRECTION OF THE COMMISSIONER

St. Merhaut

AUG 6 1962

DIRECTOR, TRADEMARK EXAMINING OPERATION

DANIEL H. BOBIS

401 WORTHINGTON AVE.

HARRISON, N. J.

FORM POL-135 A
2-60

AFFIDAVIT

ACKNOWLEDGMENT

U. S. DEPARTMENT OF COMMERCE - PATENT OFFICE

AFFIDAVITS UNDER SECTIONS 8 and 15

MARK: WORTHINGTON
REG. NO. 641,707
CLASS NO. 23 Cutlery,
Machinery and
Tools

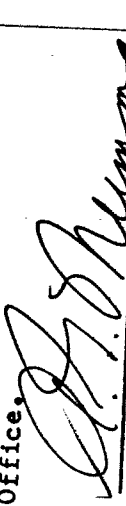
STATE OF NEW JERSEY)
COUNTY OF HUDSON) : SS.

A. G. MUMMA, being sworn, states that WORTHINGTON CORPORATION owns Registration No. 641,707, issued February 19, 1957, as evidenced by the accompanying title report; that the mark shown therein has been in continuous use in interstate commerce for five consecutive years from February 19, 1957, to the present on each of the following goods recited in the registration: Pumps, Compressors, Blowers, Ejectors, Internal Combustion Engines, comminutors, condensing and evaporating apparatus, Accumulators, Oil Separators, Boiler Feedwater Apparatus, Machinery, Apparatus and Valve Elements for Raising, Forcing Controlling and Regulating Flow of Liquids, Gases or Steam and that the mark shown therein is still in use in interstate commerce as evidenced by Bulletin 1099-B73 Copyright 1960, attached; that there has been no final decision adverse to registrant's claim of ownership of said mark to its right to register the same or maintain it on the register, and that there is no proceeding involving any of said rights pending and not disposed of either in the Patent Office or in the courts.

POWER OF ATTORNEY

WORTHINGTON CORPORATION hereby appoints DANIEL H. BOBIS, 401 WORTHINGTON AVENUE, HARRISON, NEW JERSEY, REGISTRATION NO. 16694, as its attorney to file this affidavit in the United States Patent Office.

(SEAL)


A. G. Mumma, Vice President

SUBSCRIBED AND SWORN TO BEFORE ME THIS 11 DAY OF JULY, 1962.

(SEAL)



Notary Public

NOTARY PUBLIC OF NEW JERSEY
My Commission Expires Feb. 14, 1963

att.

#2

PRODUCTS
AND SERVICES

WORTHINGTON

THIS IS WORTHINGTON TODAY

Wherever power is generated or transmitted; wherever liquids or gases are handled—you'll find Worthington—pre-eminent in engineering, solidly dependable, respected the world over. Foremost in pumps for over a century, this is the company which continually expands its outlook; diversifies with kindred products, refines its skills; to serve you with the most modern industrial equipment available. This is Worthington today.

When You Buy Worthington You Invest in The Future

In research and development, Worthington invests about twice more than the average industrial company. Ten laboratories keep pace with your fast-changing needs. From their pioneering endeavors have come spectacular innovations. To name a few—high-speed boiler feed pumps; a line of air conditioning compressors half the size of older units; turbocharged Diesel engines; developing equipment for nuclear energy applications. And broad standardization programs are achieving superior world-wide engineering and manufacturing; greater availability; better service. This is Worthington today.

When You Buy Worthington You Buy Experienced Teamwork

Besides the parent company divisions, other companies have added their talents to the Corporation. The divisions, with their sales offices, are shown in this bulletin. Some of their products are pictured at work and for your convenient reference, their products and sales offices are alphabetized in the Directory Section. Worthington Corporation—its divisions, departments, and sales offices—are teamed together to render quality service—and quality products—to you, our customer. This is Worthington today.

COPYRIGHT 1960 WORTHINGTON CORPORATION

Guide to Products and Services

Advanced Products	Pages 3
Air Conditioning, Heating, Refrigeration	4-5
Pumps	6-7
Steam Power Equipment	8
Steam Turbines	9
Engines—Diesel and Gas	10
Compressors—Air and Gas	11-12
Construction Equipment	12
Mechanical Power Transmission	13
Automatic Control Equipment	14
Meters	14
Electric Motors, Generators, Controls, Bus Duct	15
Services—Domestic and International	16
Product and Sales Office Directory	17-28



ADVANCED PRODUCTS

When your needs call for specially designed machinery and systems not listed in this bulletin, Worthington's Advanced Products Division is ready to assist you.

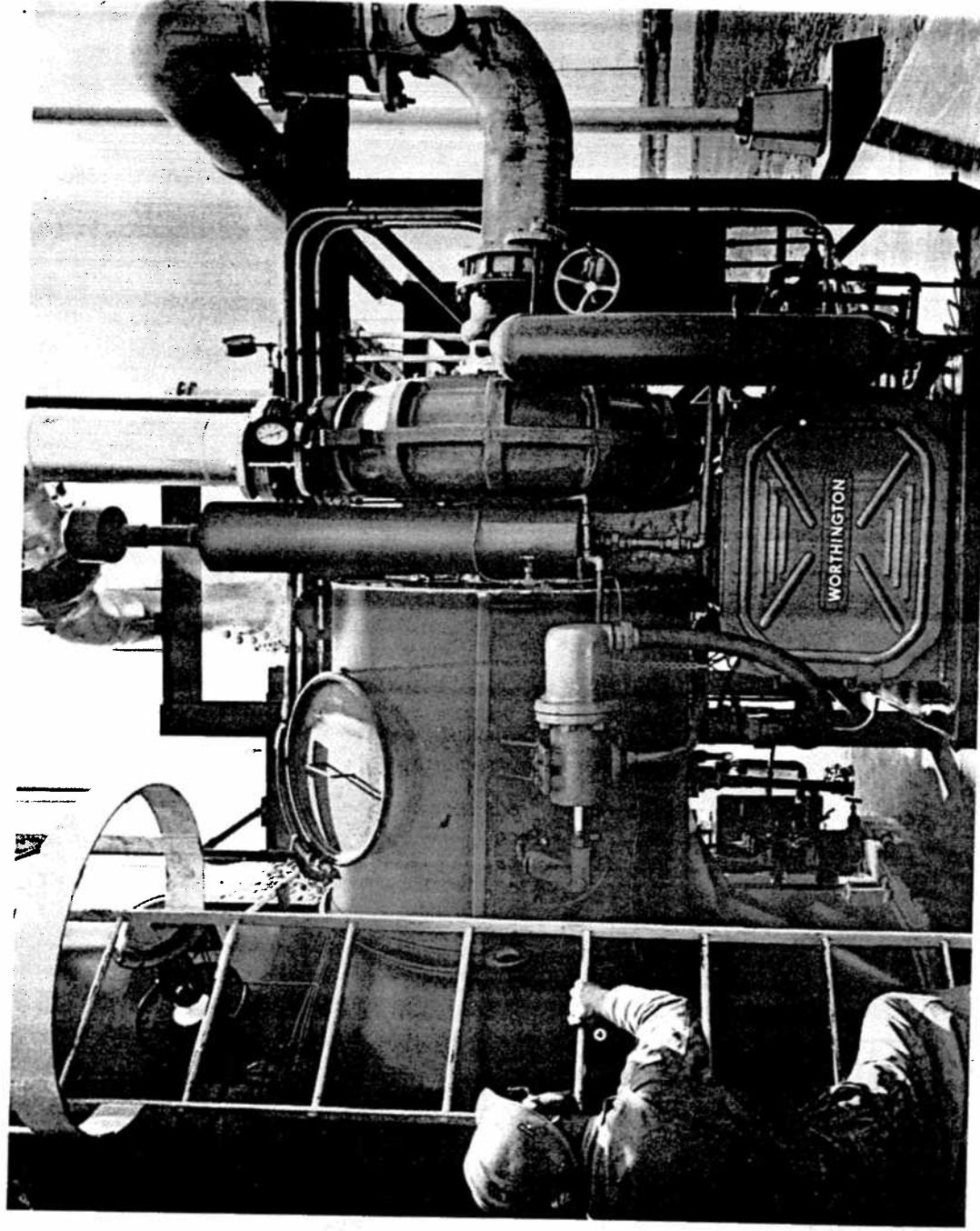
This division is the advanced development arm of the Corporation. It is staffed by engineering and manufacturing specialists experienced in handling research and development programs for new products and systems. Typical of recent projects are:

- Expander turbine-compressor sets for low-temperature refrigeration and liquefaction of gases.
- Special compressors and blowers.
- Primary water circulating pumps for nuclear power plants.

- High-speed, monobloc-type, steam-turbine-driven boiler feed pumps.
- Design study of a liquid metal pump for aircraft application; and fabrication and testing of prototype.

- Design, installation, and operation of a plant for thermal recovery of oil not recoverable by conventional methods.

You may establish contact with the Advanced Products Division by calling your nearest Worthington sales office listed under Directory Section J, page 26.



New combined turbine and compressor, developed by Advanced Products Division, is used in a new process which separates air components in the manufacture of oxygen. New uses in the steel industry, missile programs, and other areas are accelerating the manufacture of oxygen.

AIR CONDITIONING, HEATING

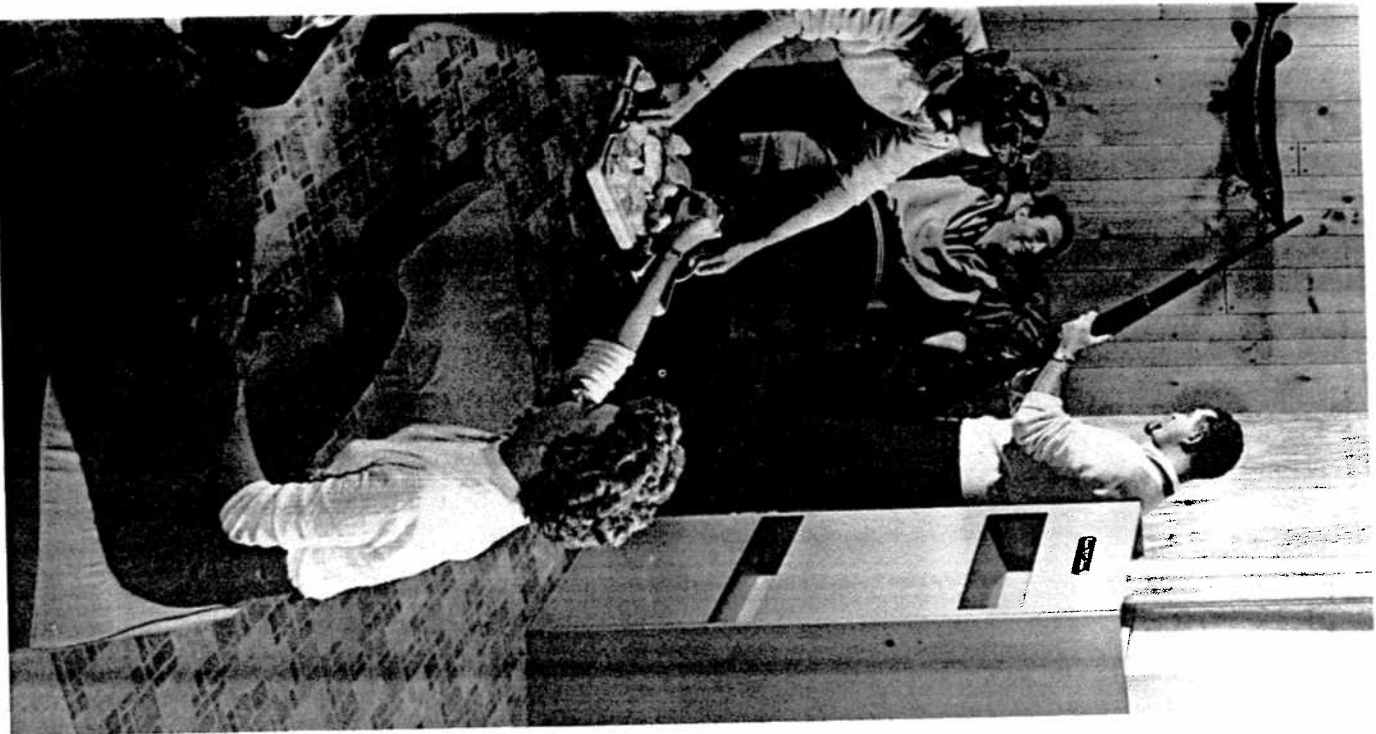
Worthington's complete air conditioning lines meet most needs—solve most problems, from the smaller heating and cooling equipment for the home; from two-ton packaged air conditioners for small shops and stores in the commercial fields—to huge central station air conditioning systems for large industrial plants, skyscrapers, hotels, laboratories.

The packaged units for residential and commercial use are completely self-contained, with compressor, water chiller, and air handling equipment built in.

Central systems are built up from individual components selected and integrated into the system to meet exact requirements of each installation.

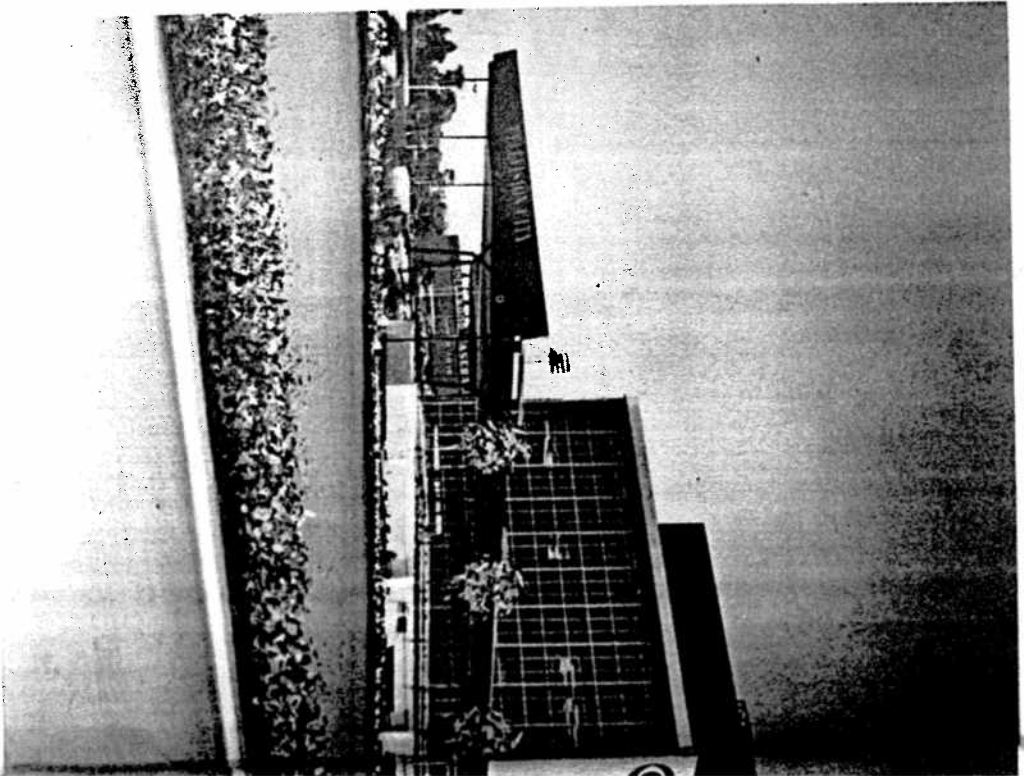
REFRIGERATION

In the engineering and manufacturing of industrial refrigeration equipment, Worthington has long enjoyed a reputation for reliability. Among the many applications of proved performance are fruit storage, meat packing, abattoir, processing plants, marine, food, test-



ENGINEERED TEMPERATURE AT WORK — Mueller Climatrol gas-fired furnace, engineered for central year-round air conditioning.

One of many familiar-name locations air conditioned by Worthington.



AND REFRIGERATION

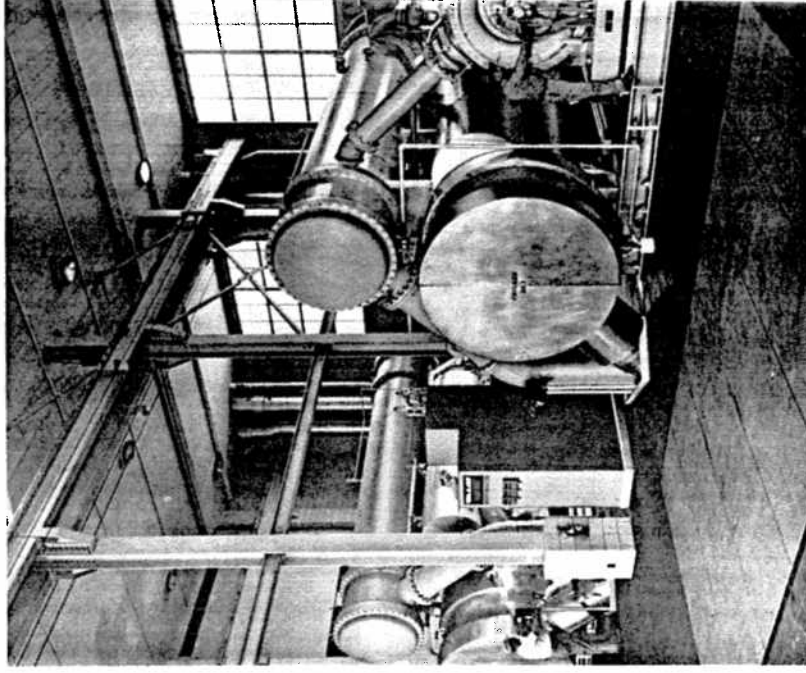
ing laboratories, ice skating rinks, and ice-making for other purposes.

* * *

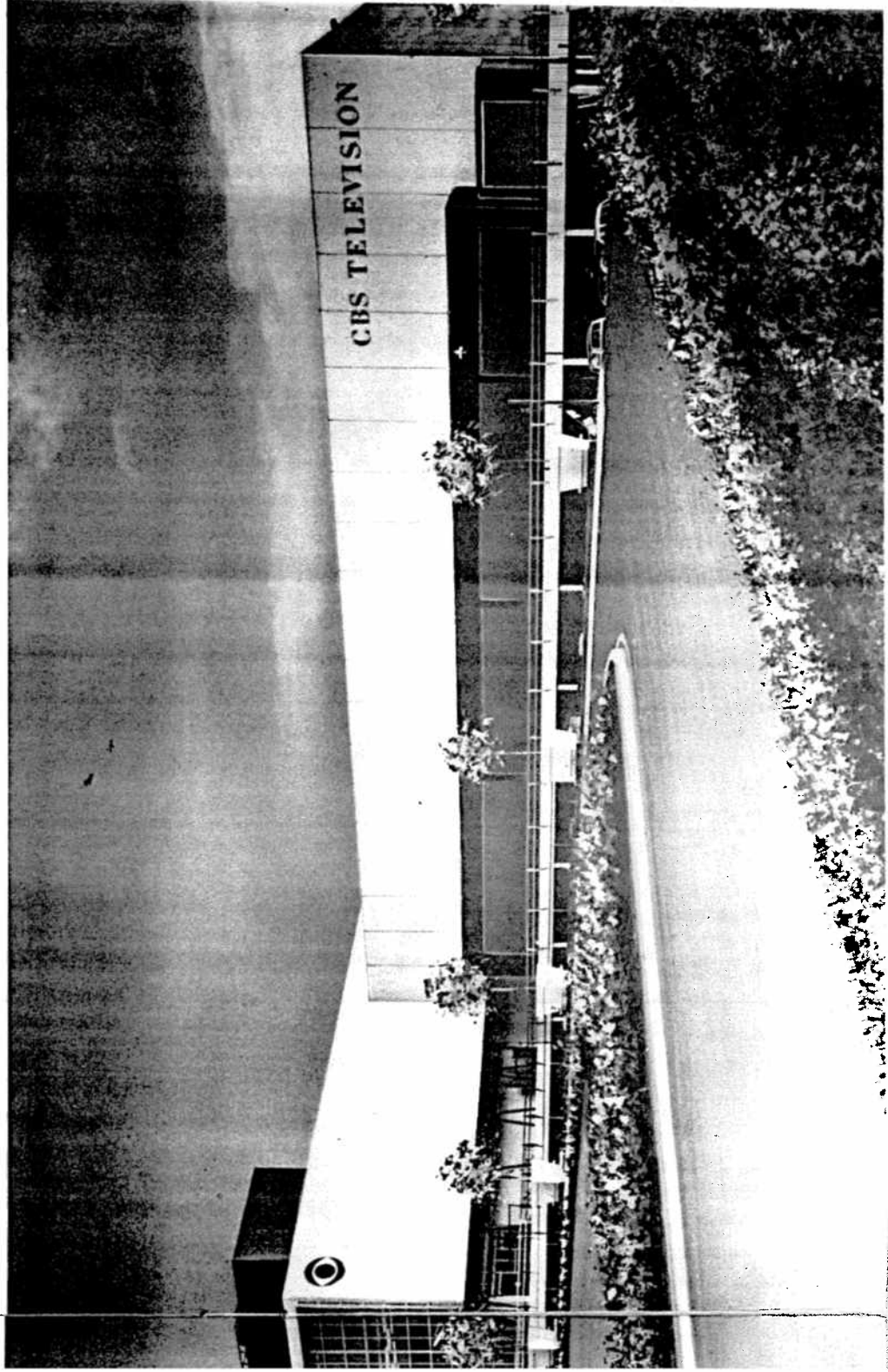
Two Worthington divisions serve industry in air conditioning, heating, and refrigeration. Mueller Climatrol Division in Milwaukee specializes in home heating and cooling products; unit heaters for commercial and industrial buildings; and year-round air conditioning equipment for homes and commercial establishments.

The Air Conditioning and Refrigeration Division in East Orange, New Jersey, produces packaged air conditioners for the small commercial shops; central station equipment for large buildings; and the heavy-duty industrial refrigeration components.

Whether you need comfort air conditioning; process cooling; or low-temperature simulation for laboratory testing, Worthington has a system to do your job. You will find these products listed alphabetically in the Directory Section, starting on pages 18-19.



Central air conditioning system in the South Agricultural Building, Washington, D.C., controls temperature and atmospheric conditions throughout the building and its laboratories.



PUMPING EQUIPMENT

When Best Pump Engineering and Economy are Vital—Call Worthington

Each new technological advance brings new pumping problems to solve. That's why Worthington's research and development is continuous. Specialists, covering all major industries, work as a team. Together, they bring to bear on any problem, stores of experience with the most comprehensive pump line in the world; including horizontal and vertical centrifugal pumps, horizontal and vertical power pumps, rotary pumps, steam pumps.

They've helped pioneer new developments for public works, atomic energy applications, the oil industry, chemical and process industries—power plants, marine services—to name a few.

For your day-to-day pumping problems, our sales engineers are thoroughly trained in pump applications

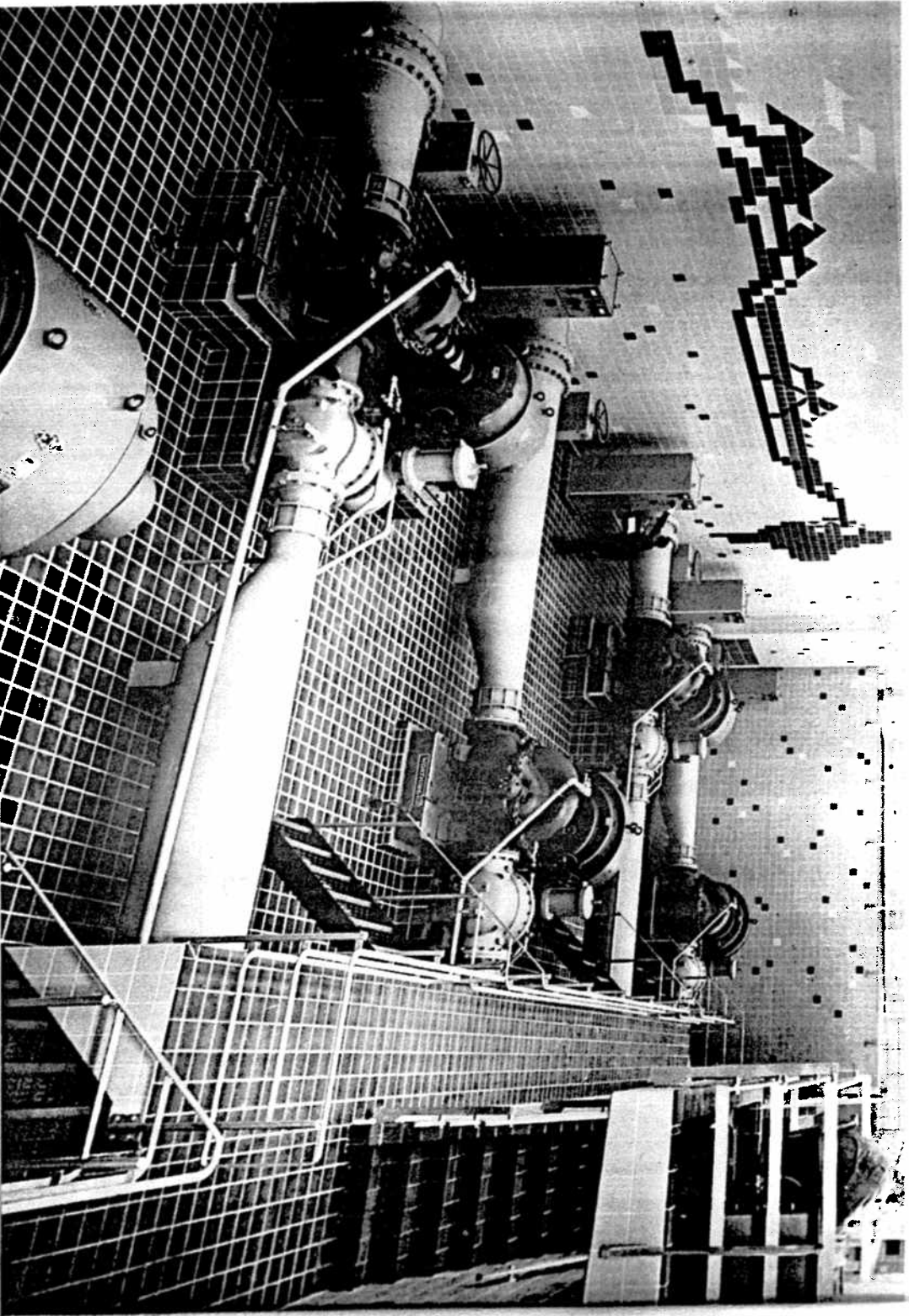
in every field. They can usually supply the right answer fast. On the really tough ones, our staff engineers back them up with all the experience, equipment, and facilities of our shops and laboratories. Factory-trained trouble-shooters are available to cope with any problem that may arise in the field.

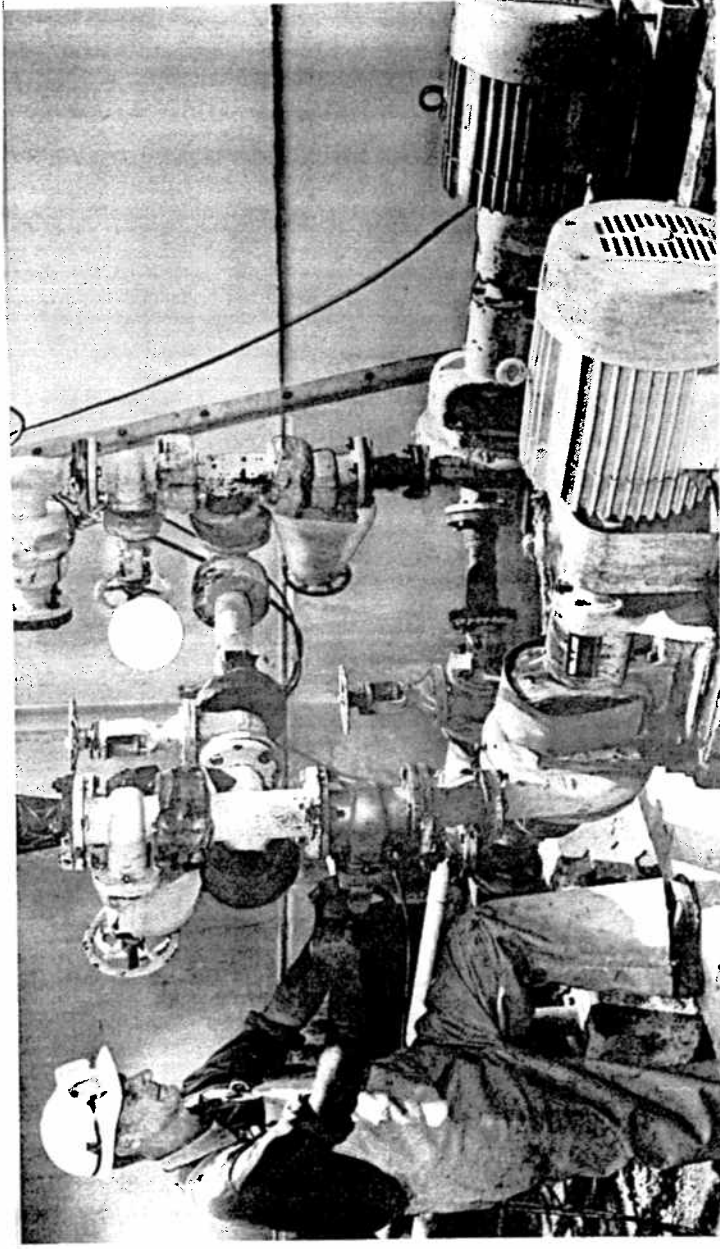
Check Worthington first; in most cases, we'll have the money-saving answer for you, as we have for so many others.

* * *

For your convenience, the Directory Section, page 21, groups the various pumps alphabetically, keyed to your nearest sales office.

Coldbrook Pumping Station, Grand Rapids, signifies trend toward modern design and equipment. Worthington pumps in three plants perform the vital operations in supplying water to this community — typical of the water works, power plants, and hundreds of industries throughout the world relying on Worthington for dependable service.





A standard end-suction centrifugal Worthington pump handling 98% sulphuric acid, in process service. The SESC line is one of many built by Standard Pump Division. You get a custom-built pump from stock parts, quickly and economically, in 120 sizes, with a choice of materials, liquid-ends, and drives... in 70,480 combinations.

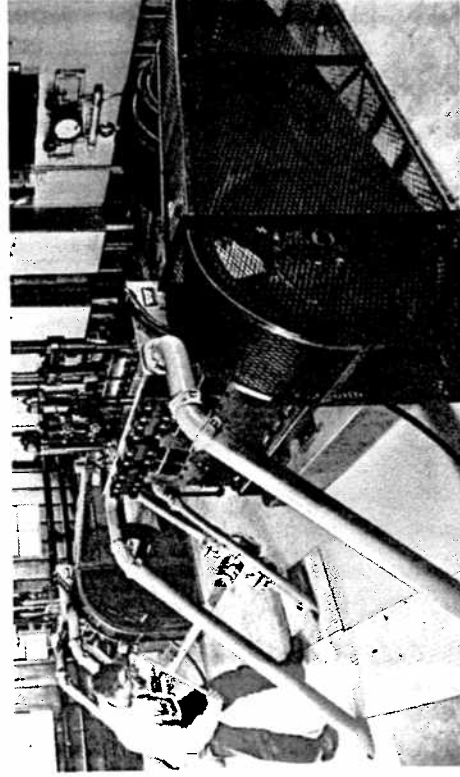
Your pumping problems are the concern of Worthington people in five divisions. They want you to have the right pump for the job, small or large—engineered and built for economy of operation, of long life, trouble-free service.

STEAM-JET EJECTORS

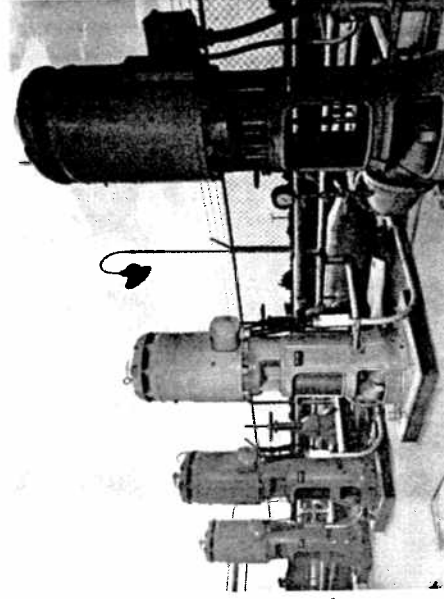
In addition to pumps for process industries an economical way to obtain process vacuum is with a standard Worthington steam-jet ejector. Low in initial cost, it consists of only a few simple parts, and requires no driver. Low in installation cost, it requires no foundation. Low in maintenance; no moving parts to wear or become misaligned. Whether your requirements call for single or multiple-stage ejectors or special materials (any machineable metal, porcelain, impervious graphite) Worthington can meet your need.

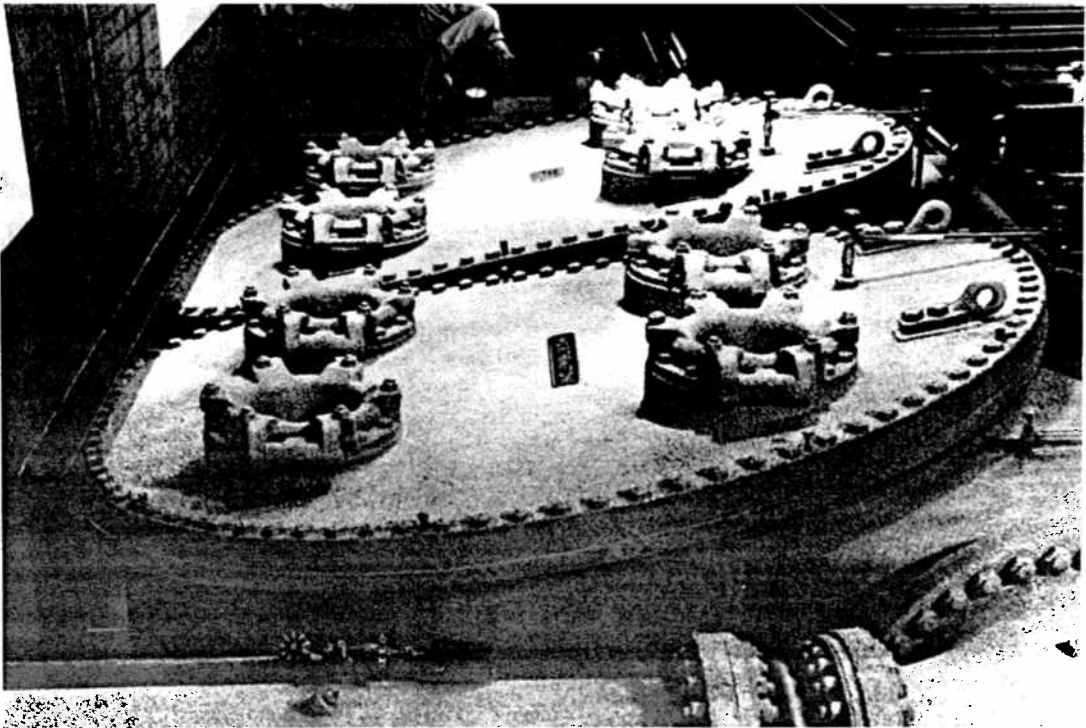
Complete lines of Worthington Standard Pumps and Worthington or Wintrooth Vertical Turbine Pumps are carried by leading Industrial Equipment Distributors on both continents. Distributors in agricultural areas carry the vertical turbine lines for pumping from deep wells, reservoirs, and other sources.

These vertical turbine pumps, built by Vertical Turbine Pump Division, Denver, handle Mississippi River water for cooling service at Monsanto Chemical Company, Luling, Louisiana. Pumps manufactured at Denver and at Wintrooth Pumps Division, Alhambra, Cal., are widely used in industrial, municipal and irrigation services.



Worthington power pumps, driven through Worthington Multi-V-Drives, are produced by the people of Oil City Division. These are in water-flood service in the North Happy Valley Unit, Blackwell Oil & Gas Company, Cushing, Oklahoma.





Worthington condensers for nuclear and super-critical-pressure power plant applications are of special design to accommodate large quantities of dump steam, and to guard against feedwater contamination. Worthington has built these units in sizes approaching 200,000 square feet.

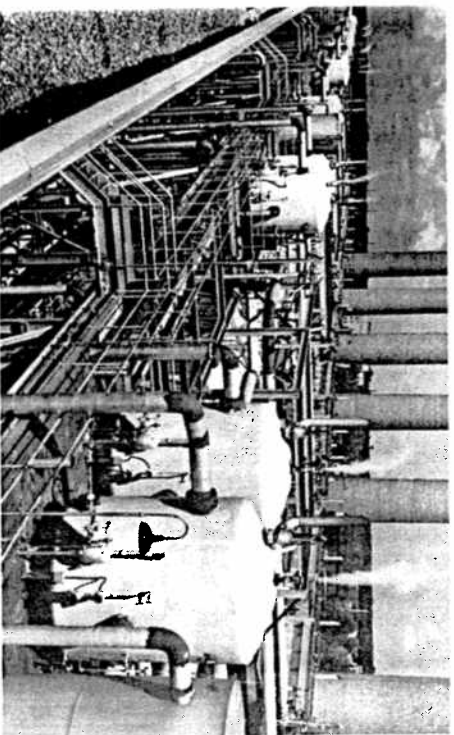
STEAM POWER EQUIPMENT

Design coordination is responsible for the many Worthington "firsts" in producing steam-cycle equipment. Metallurgy, thermodynamics, chemistry, physics, are all coordinated with today's needs, not only for boiler feed pumps but for condensers, deaerating feedwater heaters, and steam-jet ejectors.

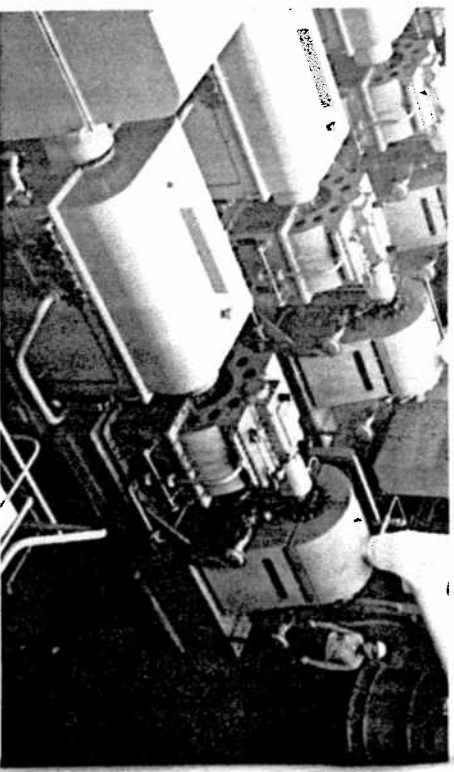
Worthington people help to combat rising construction costs by constant emphasis on "space engineering" to meet the demand for (1) larger sizes to keep pace with turbine generator ratings; (2) condensate and boiler feedwater of exceptional purity.

* * *

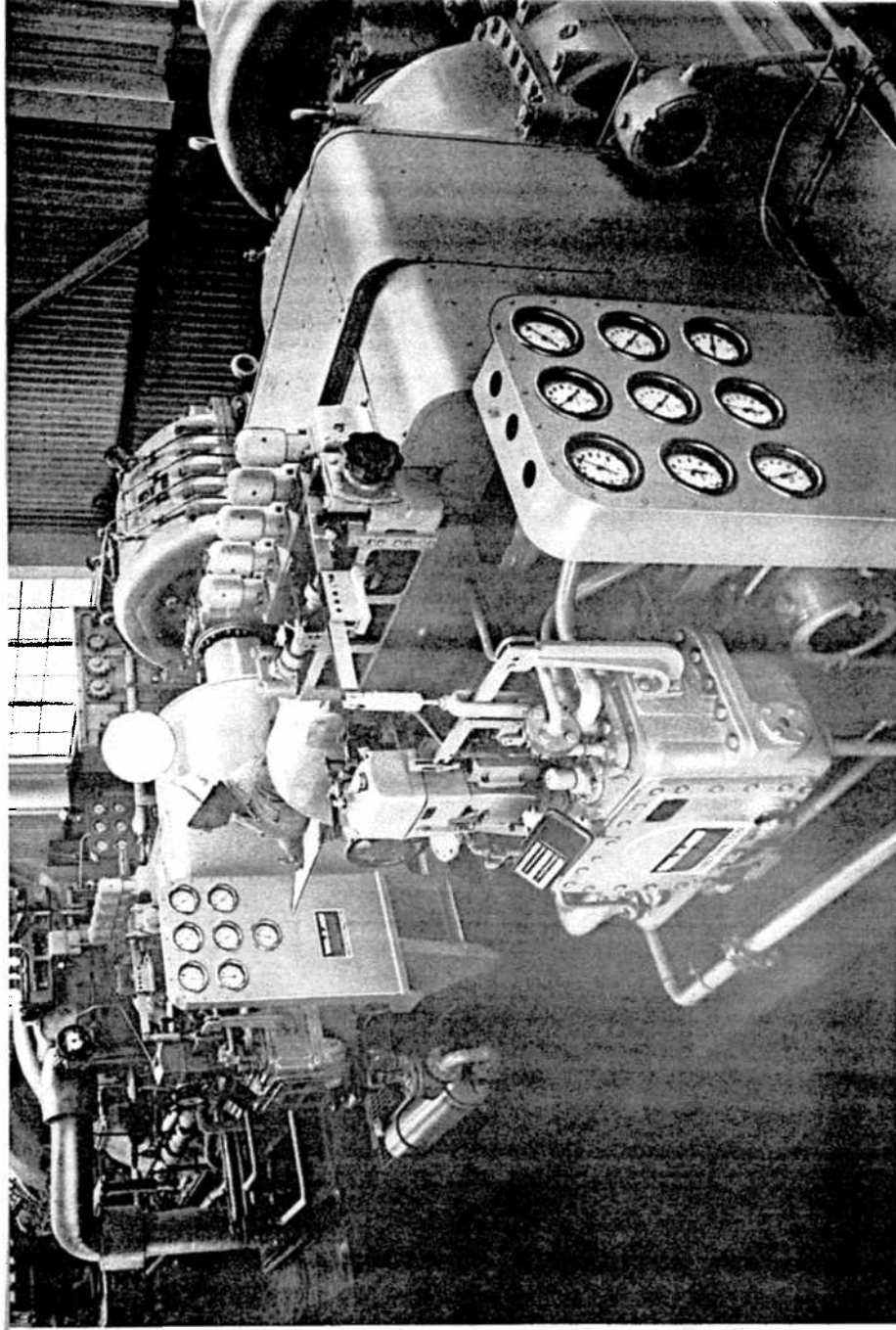
Over a half-century's experience enables Worthington to provide you with steam power plant equipment efficient in operation, easily accessible, and adaptable to exacting conditions of service and limited space. Your nearest sales office is shown under Reference J, page 26.



Deaerating feedwater heaters remove oxygen or other dissolved gases from boiler feedwater, protecting the boiler against serious corrosion. They're available in tray or steam-jet types with shell arrangement to suit individual job requirements. Deaerators have been furnished for capacities exceeding 3,000,000 pounds per hour.



More than 70% of the high-speed boiler feed pumps installed or on order are Worthington... Harrison Division people take pride in building these dependable pumps for the electric power industry, marine service, and other applications.



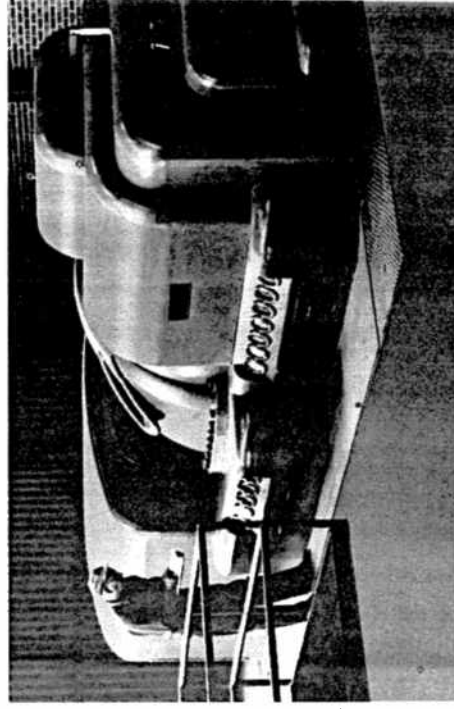
These mechanical drive turbines are driving centrifugal compressors at El Paso Natural Gas Products Company's Butadiene Plant at Odessa, Texas. Our Steam Turbine Division people at Wellsville, New York take pride in their research, engineering, and manufacturing quality. Worthington mechanical drive turbines are available in all sizes — from 1 to above 50,000 hp.

STEAM TURBINES

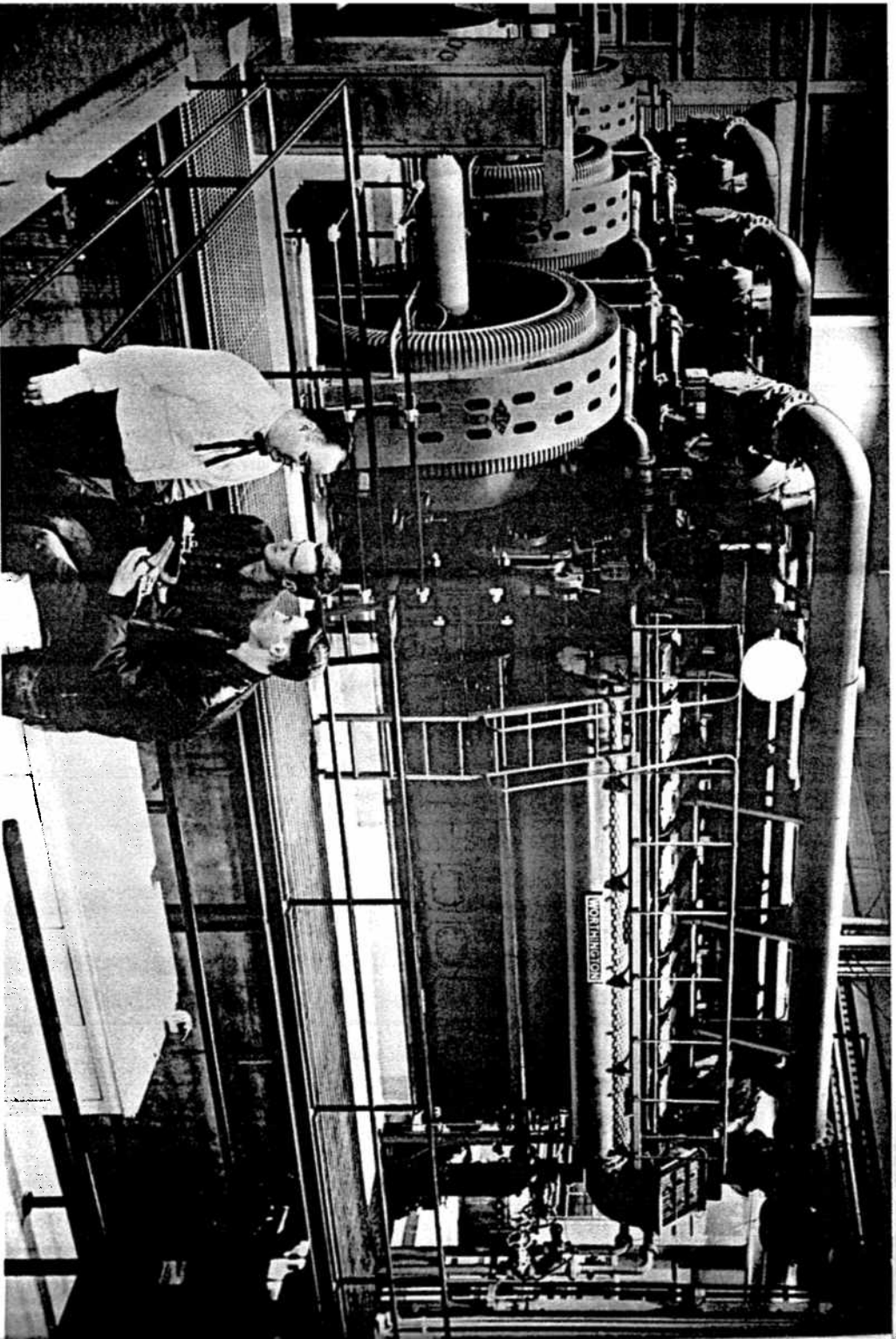
Designed to Make the Most of Steam — to Give You Power Economy

Long, trouble-free life of Worthington's turbines stems from two primary sources: (1) the pace-setting achievements of our turbine craftsmen; (2) the wide variety of exacting tests made before shipment to you. For example, when load testing, special water brakes designed by our engineers specifically for turbine work are applied.

Whether your requirements call for straight condensing—straight non-condensing—extraction—mixed pressure extraction—low pressure—high back pressure; for mechanical or generator drive—with governors for constant or variable speed;—the turbine application you're planning will be capably handled by your nearest Worthington sales office (Reference J. page 26). Specialists in turbine applications are also conveniently located—ready to help you.



This Worthington steam turbine generator produces 5,000 kw for the City of Cedar Falls, Iowa; — one of the many units in service throughout the world, supplying power for factories, institutions, and municipalities. Worthington turbine generators are available in sizes through 15,000 kw.



Three 4190 hp Worthington dual-fuel engine-generators, rated at 3,000 kw each, were recently added to four previously-installed Worthington units rated at 1350 kw in the Rangely, Colorado plant of Maon Lake Electric Association. The elevation here is 5,300 feet.

ENGINES - DIESEL AND GAS

Every Modern Advantage at the Same Price per Horsepower

Worthington engines have new features that many older designs lack — features that give you permanent or standby power at lowest costs ever achieved for heavy duty.

Better Performance—All Worthington engines are designed for turbocharging. They offer big-engine performance and economy, even in smaller horsepower sizes, that no “souped-up” engine can equal.

More Economical—Turbocharging by Worthington offers the most economical fuel consumption of any comparable-size engine. Worthington engines operate on inexpensive, locally available fuels—gas, oil, or a combination of both.

More Compact—Costs of fabrication and installation are appreciably reduced; can be transported over most roads without costly procedures.

More Reliable—Moderate speeds and conservative bhp's make Worthington engines among the most reliable ever built. Their features have been tested and proved on thousands of engines for all types of application.

These industrial type engines, built by the Compressor and Engine Division at Buffalo, range from 500 horsepower. They're available with electric generators or as a separate drive for pumps, blowers, generators and other machines. Integrated angle gas engine-compressors are offered for gas pipeline service and for process plant service. The total horsepower of the engines we've built in the last sixty years runs into the millions—and most of these engines are still in service. Your nearest sales office shown in Reference J, page 26, will be glad to hear from you!

AIR AND GAS COMPRESSORS

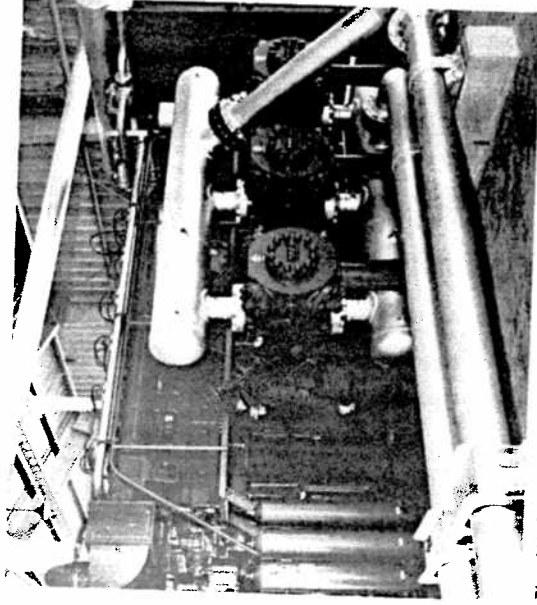
No Compromise When You Select From Worthington's Complete Compressor Line

The correct compressor for any installation is one that will produce, at proper pressure, an ample supply of compressed air for present requirements—provide some reserve for estimated future needs—and is controlled to assure maximum economy of operation.

A compressor and drive for nearly every compression job is available in Worthington's complete line. Sizes range up to 10,000 hp, air and gas pressures to 35,000 psi. These modern, heavy-duty compressors are used in both air and gas process applications.

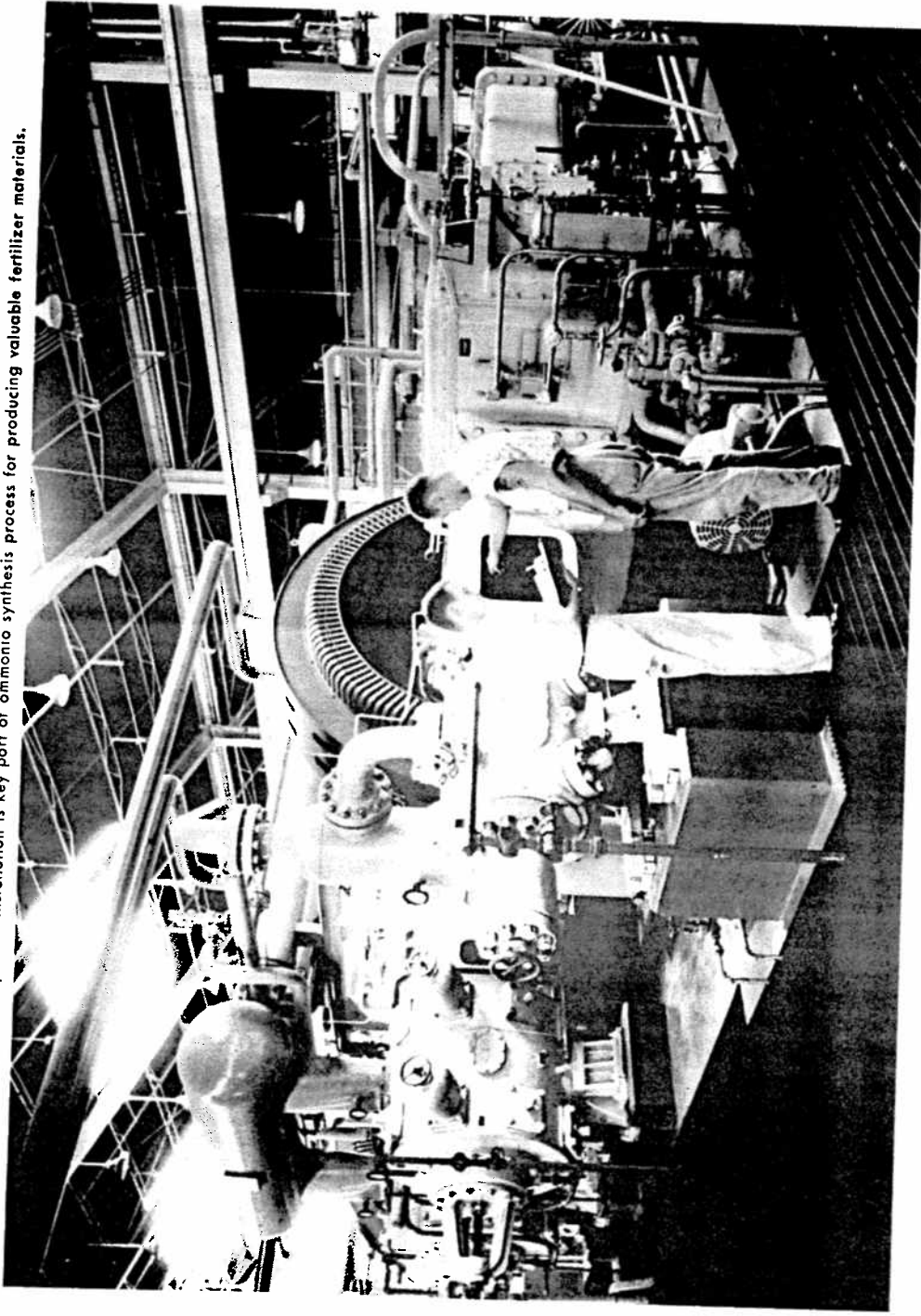
Water-Cooled Compressors

Our Compressor and Engine Division at Buffalo builds a complete line of water-cooled compressors. Every machine is available in a standard unit, from the single horizontal midgets to the big balanced opposed giants. Standardization allows you complete freedom of choice; and you can install these high-quality machines at lowest possible cost in a surprisingly short time.



The SLHC is the most modern engine-compressor you can buy for heavy-duty applications in gas field and process services. Turbo-charged four-cycle design with more reliable horsepower per pound than any other engine-compressor under 1,000 hp, the SLHC is compact—powerful—economical.

Worthington balanced opposed compressor installation is key part of ammonia synthesis process for producing valuable fertilizer materials.



AIR AND GAS COMPRESSORS

Air-Cooled Air Compressors

The new Worthington X compressor is part of the air-cooled compressor line manufactured at Holyoke Division. The stationary air-cooled line ranges from 1/3 to 100 horsepower. Portable units are described below, under Construction Equipment. Worthington stationary air-cooled compressors are handled by leading Industrial Equipment Distributors.

For your easy reference, the various types of compressors are listed on page 19, and keyed to your nearest sales office under Reference J, page 26.



CONSTRUCTION EQUIPMENT

BLUE BRUTE PORTABLE COMPRESSORS AND AIR TOOLS

Money-saving features like accessibility; two-stage oil separation; clutch; — are incorporated in Blue Brute Portable Compressors by Holyoke Division.

Paving breakers, hand-held drills, clay and trench diggers, backfill tampers, sump pumps, wagon drills and crawler-mounted drills—combine maximum work output, easy operation, long life.

CONCRETE MACHINERY

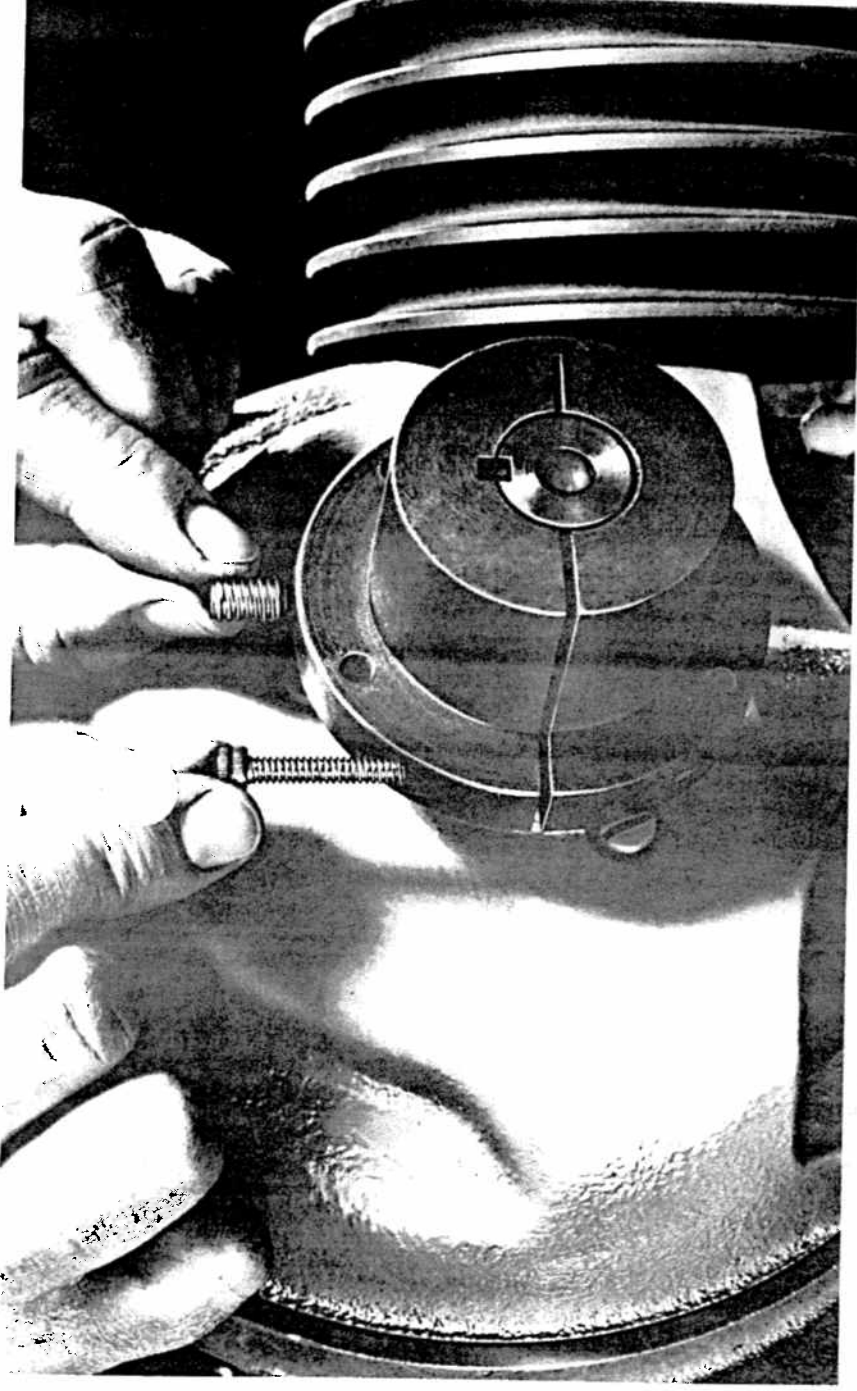
Plainfield Division produces concrete mixers for every job—big central mixers; "Hi-Up" truck mixers; paving machines; portable mixers for small jobs. Constant quality testing contributes to their top performance.

PORTABLE CONTRACTORS PUMPS

The same high quality goes into self-priming pumps as in the entire Standard Pump Division line. When Worthington is mentioned, most people say "pumps". Customers tell us the reputation is earned.



Worthington construction products are sold through Construction Equipment Distributors internationally. Your nearest sales office, Reference J, page 26, will be glad to assist.



MECHANICAL POWER TRANSMISSION

Famous in Worthington's line of Multi-Wedge Drives and Multi-V-Drives are the QD (Quick-Detachable) Sheaves with the Golden Screws. The exclusive two-screw design, "worth its weight in gold", make QD Sheaves industry's first choice.

The clamp screw simplifies installation; assures permanent alignment. Just slide the hub on the shaft and lock it in position with the clamp screw; then slide the sheave rim into position on the hub. It's easier because you engage the large end of the sheave with the small end of the hub. To change speed, merely change the sheave rim on the hub.

The set screw prevents "key drift". It locks the key securely, avoiding hazard of the key drifting off. This feature is appreciated by plant operators who first brought the potential danger to Worthington's attention. Hence the QD design's reputation for *Easy On — Easy Off — Always Tight*.

MULTI-WEDGE DRIVES — Standardize on "tomorrow's V-belt drive today" — the new, lighter, narrower Multi-Wedge Drives. These 3V, 5V and 8V section sheaves and belts provide a more compact—more economical—drive.

MULTI-V DRIVES — The combination of QD Sheaves and Worthington-Goodyear Green Seal V-Belts has long been the standard of industry.

POSITIVE DRIVES with QD Hubs combine the advantages of the chain and gear with those of the belt. Eliminate slippage, speed variations; extend bearing life; reduce maintenance; provide greater horsepower-to-weight ratio.

Complete Stock — More than 350 distributors stock Worthington sheaves and belts, with over 250,000 units in factory warehouses for prompt delivery to you.

* * *

Our Oil City Division produces a complete line of Mechanical Power Transmission Equipment, designed and rated to customers' needs. Also highlighted among these products shown in the Directory Section, page 4, are:

VARIABLE SPEED DRIVES — *Allspeed Drives* (20:1 ratio) allow widest range of speed variation — recognized for their versatility, dependability, ease of operation. *Motor Drives* (10:1 ratio) maintain accurate speed control regardless of load — hundreds of types available for any mounting arrangement or special application. *Motor Pulley Drives* (3:1 ratio) combine the efficiency of a V to V drive with industry's simplest motor pulley design. And *Multi-Pitch Sheaves* (2:1 ratio) provide a low-cost method of variable speed.

Whatever your requirements call for in mechanical power transmission equipment, your local sales office, Reference J, page 26, will be glad to advise you.

AUTOMATIC CONTROL EQUIPMENT

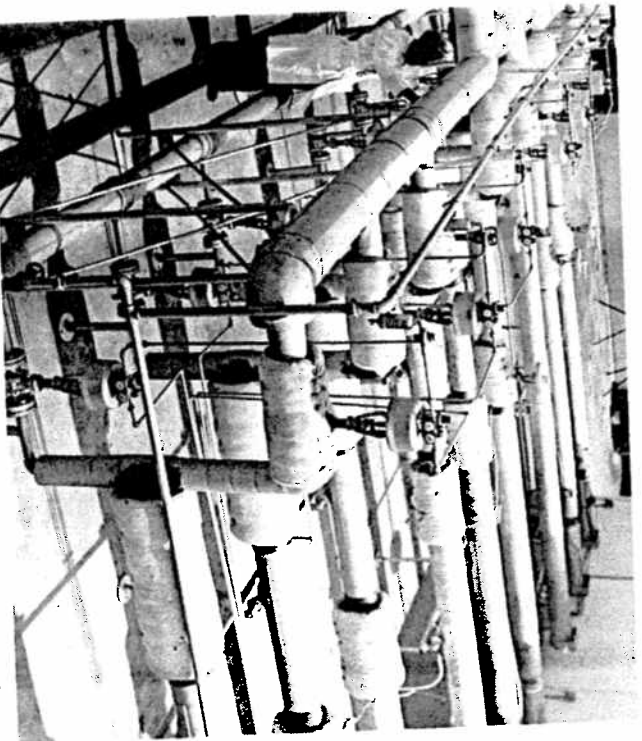
The rapid growth of automatic processes brings increasingly greater requirements for precise measurement and control of pressures, temperatures and flow-rates of vapors, liquids and gases. The correlative functions of indication and recording are equally important.

Products of Mason-Neilan and The Annin Company (divisions of Worthington Corporation) are used for reliably indicating, recording and/or controlling one or more variables as required by the applications. These include processing chemicals, petroleum, paper, etc..

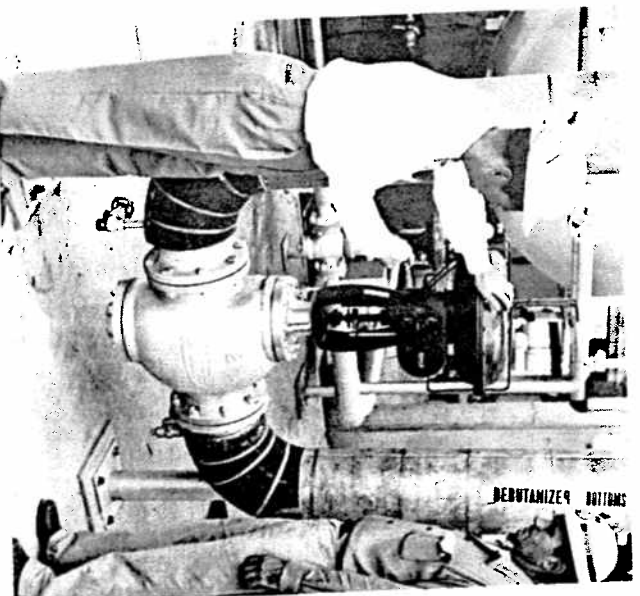
handling steam and liquids in power plants; transmission of gas and liquids in pipeline systems; general industrial plant services; missile ground support systems; marine services; and many others.

Users in all industries will tell you these controls are dependable.

These products are listed on page 19 under Automatic Control Equipment; and each specific product is keyed to your nearest sales office listing.



This Blending System effects proper mixture of hot/cold air controlled at constant pressure. Annin Domeletor Valves and Blend Valves are utilized.



Accuracy and dependability are key qualities in the final control element. This Debutanizer Bottoms Control was supplied by Mason-Neilan Division.

METERS

Accuracy and ruggedness, with trouble-free service, are responsible for Gannon Meters' ever-increasing popularity in industrial plants. Applications include brine, cold oil, hot oil, solvents, cold water, and hot water — for all general industrial services.

For specific information, please communicate with Gannon Meter Division, Worthington Corporation, 296 South Street, Newark 5, New Jersey.

Piston-type meters for cold-water service are also produced in sizes from 5/8" to 2" by Calmet Meter Division, Worthington Corporation, 2301 S. Main Street (P.O. Box 205), Fort Worth 10, Texas.

On page 20, you will see listed under meters the orifice type (differential pressure). These are mercury manometer meters and are manufactured by Mason-Neilan Division, for indicating or recording flow rates.

ELECTRIC MOTORS, GENERATORS, CONTROLS, BUS DUCT

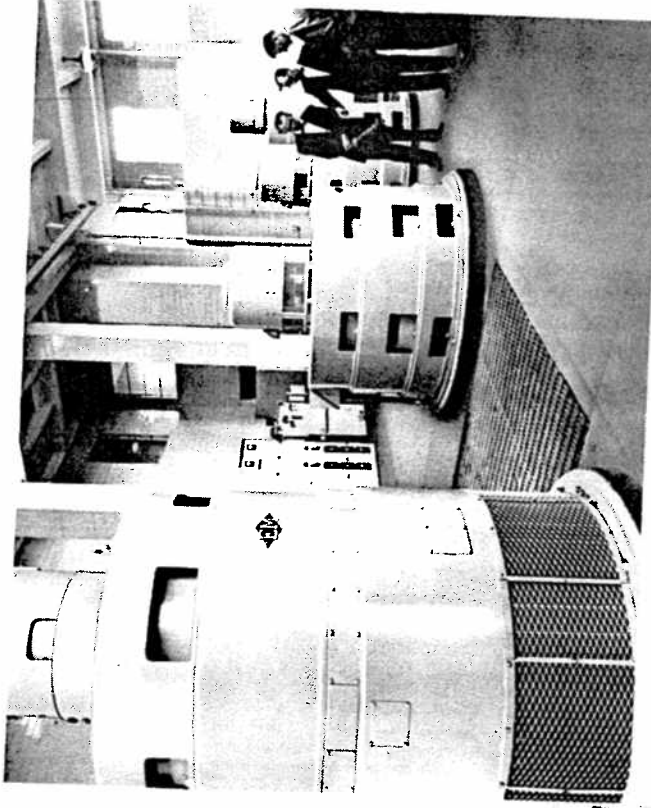
Electric Machinery Mfg. Company in Minneapolis (a subsidiary of Worthington Corporation) specializes in large a-c electric rotating apparatus — motors, generators, magnetic drives (Ampli-Speeds) and their control. The company has decades of experience in building quality equipment. Geared-to-the-customer engineering assures (1) adequacy for the application; (2) dependability for the desired continuity of service; (3) proper control to give optimum performance.

The Mullenbach Division of E.M. located in Los

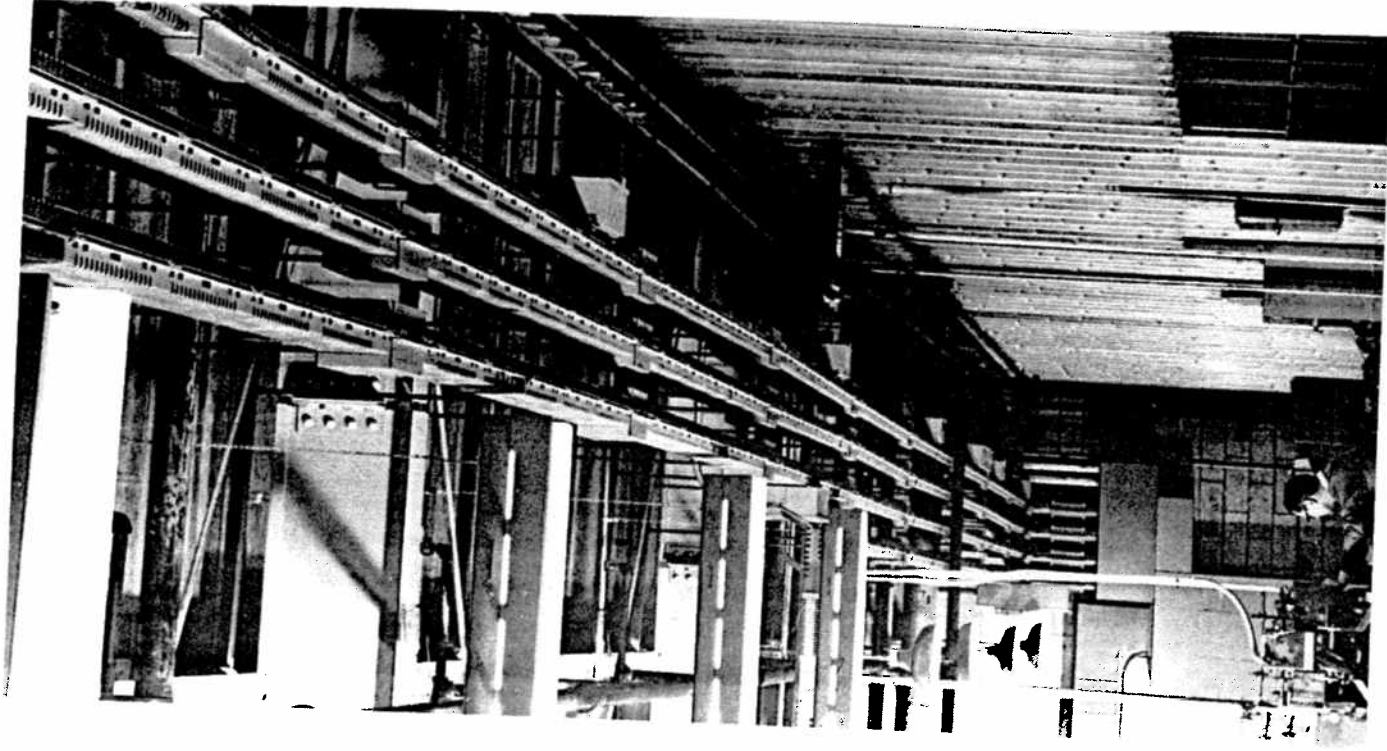
Angeles, together with E-M, produce electric distribution panels, switchboards, switchgear; motor control centers; and load banks.

These products are alphabetized in the Directory starting on page 19, and keyed to your nearest sales office under References E and E-1, page 24.

The competent E-M, EDP, and Mullenbach sales-engineering organizations, spread over more than 50 locations, are ready to provide you with helpful service in proper application.



The people of Electric Machinery Mfg. Co. built these Vertical Synchronous Motors and Magnetic Drives installed in the Jersey City Sewage Plant. They drive the pumps automatically at the most economical speed for the flow requirements.



Typical Uni-Bus low-voltage plug-in busway installation—a product of Electric Distribution Products, Inc., Allentown, Pennsylvania. EDP, a subsidiary of Electric Machinery Mfg. Company, builds Uni-Bus motor control centers and switchboards; Isoline Safety Switches; enclosed circuit breakers; and motor control equipment. Sales Offices are keyed under Reference D, page 23.

GOOD SERVICE - NOW:

The Objective of 12,000 Worthington People

WHEREVER YOU ARE, WORTHINGTON SALES AND SERVICE FACILITIES ARE "JUST AROUND THE CORNER".

Backing up the extensive line of Worthington products is an extensive network of sales and service facilities around the world. Decades of experience have equipped them to give you prompt and expert service on practically any engineering problem. This unique organization functions in three important ways to assure customers of complete satisfaction. (1) It provides valuable advice on selection of the proper equipment. (2) Contributes supervision of installation and initial operation. (3) Provides thorough follow-up with availability of parts and competent service. Worthington's international manufacturing, sales and service organization operates in seventy-four countries, spanning both hemispheres.

DOMESTICALLY - Regional Engineering and Service facilities are strategically located.

Regional Engineering and Service Division men are available for installation supervision and initial start-up of new equipment. They provide advice and assistance on technical problems; make periodic inspections of Worthington equipment in your plant; and instruct operating and maintenance personnel... all in addition to trouble-shooting the rare case of sub-standard operation.

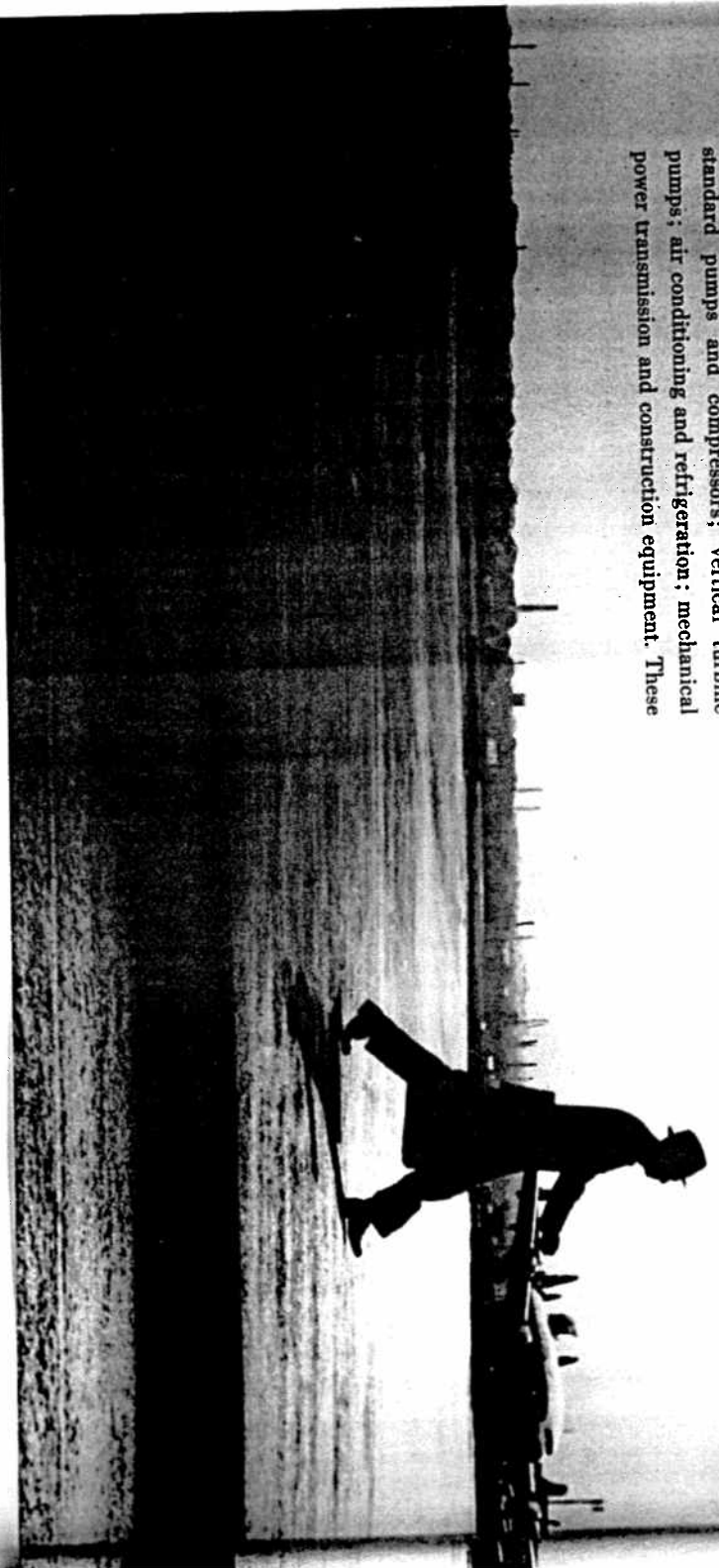
PARTS SERVICE is maintained in fifteen regional warehouses for key spare parts that may be needed locally. In these regional warehouses, complete standard products are ready for shipment, too.

DISTRIBUTOR SERVICE - Over a thousand distributors employ Worthington-trained personnel specializing in standard pumps and compressors; vertical turbine pumps; air conditioning and refrigeration; mechanical power transmission and construction equipment. These

distributors are carefully selected for their ability to service our products; to help you select from their stocks of new equipment and parts for prompt delivery.

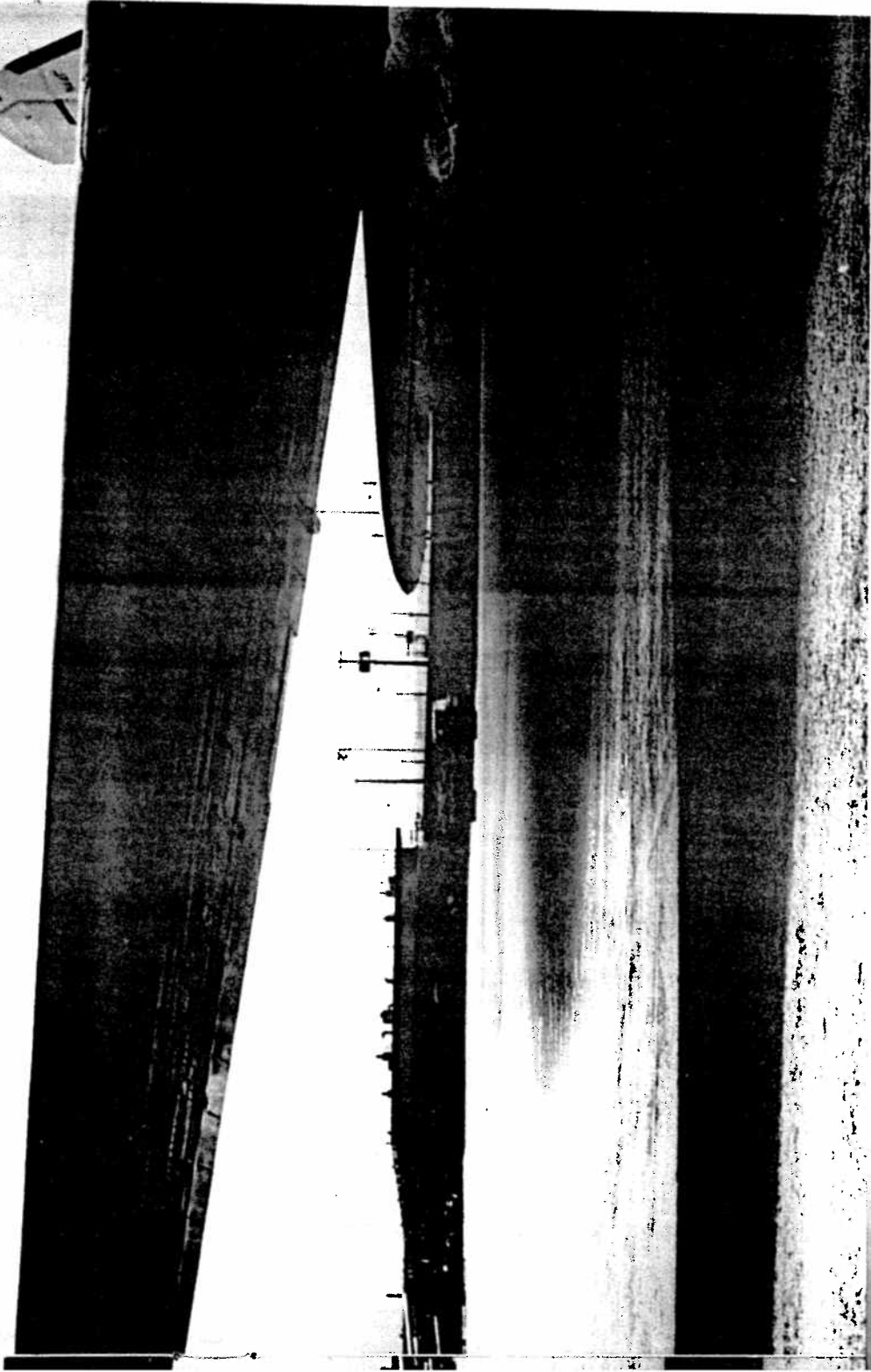
Worthington people everywhere are working hard at providing you with the best in research, design, engineering, manufacturing, and servicing of our products. Our objective is to please you, our customer.

THIS IS WORTHINGTON, TODAY



**Product and
Sales Office
Directory**

PRODUCTS THAT WORK FOR YOUR PROFIT



For your convenience

We have endeavored to arrange the product lists with as many cross-references as possible. This will help you to locate the product you need, associate it with your nearest sales office, and direct your inquiry for specific details on the product or service.

Opposite each product is a key letter. Merely refer to the sales office list keyed to the same letter, pages 23 to 26.

EXPLANATION OF THE "KEY":

	Page Location
A AIR CONDITIONING AND REFRIGERATION DIVISION, East Orange, New Jersey.....	23
B ANNIN COMPANY (THE), Montebello, California.....	23
C CALMET METER DIVISION, Fort Worth, Texas.....	23
D ELECTRIC DISTRIBUTION PRODUCTS, INC., Allentown, Pennsylvania.....	23-24
E ELECTRIC MACHINERY MFG. COMPANY, Minneapolis, Minnesota.....	24
E-1 MULLENBACH DIVISION OF ELECTRIC MACHINERY MFG. CO., Los Angeles, California.....	24
F GAMON METER DIVISION, Newark, New Jersey.....	25
G MASON-MEILAN DIVISION, Norwood, Massachusetts.....	25
H MUELLER CLIMATROL DIVISION, Milwaukee, Wisconsin.....	25
I WINTROATH PUMPS DIVISION, Alhambra, California.....	26
J WORTHINGTON DISTRICT SALES OFFICES SERVING THE FOLLOWING DIVISIONS:.....	26

*Advanced Products Division, Harrison, N. J. (Research and New Product Development)
 Compressor and Engine Division, Buffalo, N. Y. (Air & Gas Compressors, Internal Combustion Engines, Engine-Generators)
 Harrison Division, Harrison, N. J. (Steam Power & Pumping Equipment, Centrifugal Compressors)
 Holyoke Division, Holyoke, Mass. (Portable Compressors, Contractors' Tools, Air-Cooled Compressors)
 Oil City Division, Oil City, Penna. (Power Pumps, Mechanical Power Transmission Equipment)
 Plainfield Division, Plainfield, N. J. (Concrete Machinery Products, Industrial Mixers)
 Standard Pump Division, East Orange, N. J. (Standard Centrifugal, Self-Priming, & Rotary Pumps)
 Steam Turbine Division, Wellsville, N. Y. (Steam Turbines, Turbine Generators & Gears)
 Vertical Turbine Pump Division, Denver, Colo. (Vertical Turbine Pumps)

REGIONAL ENGINEERING AND SERVICE DIVISION OFFICES..... Back Cover

*Should you require specially designed machinery and systems, Worthington's Advanced Products Division may be able to meet your need. This Division is the advanced development arm of the Corporation, and is staffed by specialists experienced in handling research and development programs for new products and systems. To establish contact with the Advanced Products Division, please call your nearest office under LIST J, Page 26.

PRODUCTS

ABSORBERS — Ammonia.....A
 AFTERCOOLERS — Air and gas.....J
 AIR COMPRESSORS — (See Compressors).....J
 AIR CONDITIONING AND HEATING EQUIPMENT

Central Station:

Central air conditioning systems.....A
 Centrifugal compressors.....A
 Condensers, evaporative.....A
 Heat pumps.....A
 Induction circulators, fan coil units.....A
 Non-ferrous finned coils for cooling and heating.....A
 Packaged chillers for fluids and air.....A
 Refrigeration compressors for refrigerants 12, 22, and carbon dioxide.....A
 Refrigeration condensers, coolers and heat exchangers.....A
 Surface dehumidifiers.....A

Commercial:

Boilers, gas.....H
 Condensing units and condensers, packaged and remote, air cooled and water cooled.....A and H
 Furnaces, electric, gas and oil.....H
 Heat pumps, remote and packaged.....A and H
 Heaters, gas.....H
 Humidity control equipment.....A and H
 Summer air conditioners.....A and H
 Year 'round air conditioners, with gas or oil-fired heating.....A and H

Residential:

Air conditioners for use with existing furnace.....H
 Boilers, gas fired — hot water and steam.....H
 Boilers, oil fired — hot water.....H
 Condensing units and condensers, packaged and remote, air cooled and water cooled.....H
 Conversion burners, gas and oil.....H
 Fan coil units.....H
 Furnaces, gas, oil, or electric.....H
 Heat pumps, packaged and remote.....H
 Humidifiers.....H
 Humidity control air conditioners.....H
 Remote cooling coils.....H
 Summer air conditioners.....H
 Unit heaters, gas.....H
 Year 'round air conditioners, with electric, gas or oil-fired heating.....H

AIR TOOLS — (See Construction Equipment).....J
 ALLSPEED DRIVES — (See Mechanical Power Transmission).....J

AUTOMATIC CONTROL EQUIPMENT.....B and G
 (Refer to specific products listed alphabetically: — Controllers, Governors, Instruments, Meters, Positioners, Recorders, Regulating Valves, Transducers, Transmitters, Valve Actuators, and Valves [control]).

BELTS — V type, wedge type, positive-drive type (timing).....J
 (See Mechanical Power Transmission).

BOILERS — (See Air Conditioning and Heating — Residential).....H

BUSWAY — Low voltage — 600 volts or less AC or DC.....D
 100 Amperes through 5000 amperes Indoor-Outdoor Feeder Plug-in High-frequency plug-in feeder type. (Refer also to Electric).

CHEMICAL PUMPS — All types, for practically all liquids and viscosities for process industries.....J

CHILLING EQUIPMENT.....A
 Oil dewaxing, chilling machines, oil to oil heat exchangers, ammonia absorption equipment, refrigeration systems for ammonia, propane and butane.

CLAY SPADES — (See Construction).....J

CLUTCHES — Automatic coupling type and automatic drive clutches.....J
 (Also refer to Mechanical Power Transmission).

COILS — (See Air Conditioning).

COLD STORAGE PLANTS — (See Refrigeration).....A

COMMUNITORS FOR SEWAGE PLANTS.....J

COMPRESSORS — Portable, rotary and reciprocating (See Construction).....J
 For portable air supply in all industries.

COMPRESSORS — Stationary (air and gas).....J
 Horizontal and vertical, motor driven and integral angle type, engine driven. Centrifugal. Single and multi-stage. For refrigeration-ammonia, refrigerants 12, 22, carbon dioxide, etc. For marine refrigeration. Tank-mounted compressors for garages, service stations, laundries and all industrial service.

CONDENSERS — Steam, for pressures at or below atmospheric pressure. Surface, horizontal or vertical. For power generation, process industries, public utilities, municipal and industrial power plants, marine, etc. (See also Refrigeration).
 Barometric jet. Low-level jet. All sizes with all necessary auxiliaries.
 All sizes in all types, high pressure and low pressure. For refineries, gas transmission lines, gas or air lift pumping, repressuring.

CONCRETE MIXING AND PLACING EQUIPMENT — (See Construction).....J

CONDENSERS — Steam, for pressures at or below atmospheric pressure. Surface, horizontal or vertical. For power generation, process industries, public utilities, municipal and industrial power plants, marine, etc. (See also Refrigeration).
 Barometric jet. Low-level jet. All sizes with all necessary auxiliaries.

CONDENSERS — Refrigeration (See Air Conditioning and Refrigeration).
 Ammonia, refrigerants 12, 22, carbon dioxide; horizontal shell and tube, double pipe, vertical open (atmospheric), evaporative type for water saving. For general refrigeration, air conditioning, stationary and marine services.

CONSTRUCTION EQUIPMENT.....J

Air Tools

Backfill tampers, clay diggers, trench diggers, pavement breakers, self-propelled drills, sheeting drivers, rock drills, wagon drills.

Concrete Mixing and Placing Equipment.

Aggregate recovery units, central mixers, pavers, pneumatic concrete placers, portable mixers, truck mixers, tunnel agitators, tunnel mixers.

Contractors' Centrifugal Pumps — Self-priming, Portable

Portable Air Compressors, Rotary and Reciprocating

Seven sizes — from 85 through 900 cubic foot per minute capacity.

Gasoline engine, Diesel engine and power take-off.

Pneumatic-tired wheels.

Truck, two or four wheel trailer, skid and other mountings.

CONTROLS — For induction and synchronous motors.....E

CONTROLLERS — Liquid level.....G

Pneumatic, long-range, displacer-float types for mounting on side or top of open or closed vessels.

For industrial processes, power plant recirculating systems, general industrial and marine services.

COOLING SYSTEMS — (See Air Conditioning and Refrigeration).

DEAERATORS AND DEAERATING HEATERS — For removing oxygen from boiler feedwater.....J

- DECAY HEAT REMOVAL PUMPS — (See Nuclear)..... J
- DISTRIBUTION PANELS E-1
- DRIVES — (See Mechanical Power Transmission) (See Magnetic).
- ELECTRIC BUS DUCT..... D
- ELECTRIC MOTORS, GENERATORS AND CONTROLS..... E
- ENGINES—Diesel (Stationary)—Oil Diesels, dual-fuel Diesels, tri-power. J
 4-cycle, multi-cylinder, supercharged.
 For general power service; driving generators, pumps, compressors, etc.
- ENGINES — Gas..... J
 4-cycle, multi-cylinder, spark ignition, supercharged.
 Natural, manufactured or sewage-sludge gas.
 2-cycle angle compressor type.
 For general power service; driving generators, pumps, compressors, etc.
- EJECTORS — Steam-jet..... J
 Single and multi-stage.
 Condensing and non-condensing. All industrial and chemical processes requiring moderate or extremely high vacuum.
- EVAPORATIVE COOLERS — (See Refrigeration)..... A
 Liquid cooling in closed systems.
- EXPANDERS (gas) — Turbine and reciprocating — for cryogenic and hot gas J
 Applications for refrigeration and power recovery; and for driving generators, compressors, pumps, etc.
- FANCOIL UNITS — (See Air Conditioning and Heating Equipment).
- FEEDWATER HEATERS — Stationary and marine..... J
 Direct-contact jet or tray type deaerating or nondeaerating heaters constructed of any material for any capacity or pressure to suit space limitations and exacting service conditions.
- FITTINGS — For refrigeration and ice making equipment..... A
- FURNACES—(See Air Conditioning and Heating Equipment—Residential). H
- GEARS — Helical..... J
 For speed reducing in all services, large sizes.
 For speed increasing in all services, large sizes.
- GENERATOR UNITS — Diesel, gas, steam turbine generators..... J
 (Also refer to Turbine Generators).
- GENERATORS — Electric — for Diesel, gas, steam turbines..... E
- GOVERNORS — Pump..... G
 Pump discharge pressure regulating valves.
 Pump speed governors.
 For general industrial service.
 (Refer also to valves, flow control).
- HEAT EXCHANGERS — For refrigeration, oil dewaxing, water, brine, other liquids A
- HEAT PUMPS — (See Air Conditioning and Heating Equipment).
- HEATERS — Feedwater. (Refer to Feedwater)..... J
- HEATERS — (See Air Conditioning and Heating Equipment).
- HUMIDITY CONTROL EQUIPMENT — (See Air Conditioning and Heating Equipment).
- HYDRAULIC DECOCKING SYSTEMS — For oil refineries..... J
- HYDRAULIC SYSTEMS (for water and oil emulsions) — Accumulator or direct pumping..... J
- ICE MAKING EQUIPMENT — For water and dry ice. (See Refrigeration). A
- ICE SKATING RINK EQUIPMENT — (See Refrigeration)..... A
- INDUCTION CIRCULATORS, FAN COIL UNITS — (See Air Conditioning — Central Station)..... A
- INDUSTRIAL MIXERS — For fertilizers, glass, roofing materials, insulating, bituminous, confections, etc..... J
- INSTRUMENTS — Control..... G
 Indicating, nonindicating and recording pneumatic types.
 For controlling pressure, temperature, liquid level and rate of flow in industrial processes and other industrial operations; marine service.
- INTERCOOLERS — Air, gas (Also see Refrigeration)..... J
- LOAD BANKS E-1
- MAGNETIC VARIABLE SPEED DRIVES (AMPLI-SPEED) — For driving centrifugal compressors, pumps, blowers, conveyors, etc..... E
- MARINE EQUIPMENT J
 All Worthington products are available for shipboard services, meeting the standards of American Bureau of Shipping, U.S. Navy, Coast Guard, etc.
 Products especially designed for marine uses include pumping equipment for boiler feed; circulating, water supply, fire, bilge, ballast, drainage, distiller plant, oil transfer (fuel and cargo), stripping, lubricating oil transfer, snorkel de-icing, gyro-stabilizer; and other pumping services.
 Product references — Air Conditioning and Refrigeration, Automatic Control Equipment, Compressors, Condensers, Ejectors, Mechanical Power Transmission Equipment, Meters, Pumps, Reduction Gears for auxiliary service, Steam Turbines, Turbine Generators for ship service. (See also Nuclear).
- MECHANICAL POWER TRANSMISSION..... J
 Sheaves and hubs (QD — Quick Detachable), Positive drive QD pulleys (timing), Multi-V-Drives, Multi-Wedge Drives, Positive drives (timing), Multi-Pitch sheaves, Motor pulley drives, Adjustable pitch sheaves, Variable speed drives, Motor drives, All-speed drives, Single groove sheaves (QD Juniors), Belts — Vee, wedge type and positive drive type (timing), multiple and fractional H.P. Weld-on adapters for QD hubs. Automatic clutch couplings and clutch drives.
- METERS — Liquid..... F
 Disc, turbine and compound types.
 Frost proof and split-case models.
 All sizes in all types.
 For brine, cold and hot water, cold and hot oil, solvents, and all general services.
- METERS — Orifice type (differential pressure)..... G
 Mercury manometer meters for indicating or recording rate of flow. Available with electric or pneumatic integrator.
- MIXERS (Concrete) — (Refer to Construction Equipment)..... J
- MIXERS (Industrial) — (Refer to Industrial)..... J
- MOTORS — Synchronous and induction, vertical and horizontal..... E
 For driving compressors, pumps, blowers, fans, mixers, crushers, generators, and other industrial machinery. (Also refer to Electric).
- MOTOR CONTROL CENTERS — Low voltage — 600 volts or less. D and E-1
 Fusible or circuit breaker combination unitized motor starters.
 NEMA type A, B, C — Class I or II.
- MOTOR-GENERATOR SETS — Direct current and alternating current... E
 180 CPS, 360 CPS, 400 CPS and higher.

MULTI-V-DRIVES — QD (Quick Detachable) sheaves and Goodyear V-belts. J
 Multi-Wedge drives; High torque QD Sheaves; Hy-T Wedge Belts.
 (See Mechanical Power Transmission).

NOZZLES — Spray — for descaling steel. J

NUCLEAR PLANT EQUIPMENT J

All Worthington products are available for nuclear plant service, applicable to marine, power plant, research, development, and other uses. Products designed especially for auxiliaries to reactor systems include:

- Reactor system charging pumps.
- Reactor circulating pumps.
- Decay heat removal pumps.
- Reactor circulating blowers.

OIL SEPARATORS — Water cooled, for ammonia, refrigerants 12, and carbon dioxide. A

PAVERS — (See Construction Equipment) J

POSITIONERS, Valve — pneumatic and electropneumatic. B and G
 For accurate, positive positioning of actuating stems of control valves and other pneumatically operated devices. (Refer also to Valve Actuators).

POWER PLANT EQUIPMENT — Refer to alphabetical listings.

POSITIVE (timing) DRIVES — (See Mechanical Power Transmission) . . . J

PULLEYS — (See Mechanical Power Transmission) J

PUMPS — Centrifugal J

Horizontal and vertical.

Volute and turbine.

Axial flow (propeller type), Mixflo, Hiflo, Freflo, and Radial Flow, single and multi-stage.

Cast iron, all bronze, forged steel or special metal.

Low and high pressures.

Self-priming, portable and stationary.

Monobloc.

Wide range of heads and capacities.

Belt, motor, turbine or engine drive.

"Worhtite" alloy steel and Karbate pumps for acids, alkali, and other chemical services.

Paper stock pumps.

Boiler feed, condensate, circulating water, and other steam power plant uses.

Water works and general water supply.

Sewage, drainage and irrigation pumps.

Refinery, pipe line, hydraulic, fire, air conditioning, hotwell

service, pumping volatile liquids, bottle and can washing,

sanitary drinking water, coolant service, brewery mash, and

marine pumps.

Chilled water, cooling tower, condenser circulating, brine.

All general industrial services.

PUMPS — Heat — (See Air Conditioning).

PUMPS — Power J

Horizontal and vertical.

Duplex, triplex, quintuplex and septuplex and nonuplex.

Piston and plunger types.

Cast or forged fluid ends.

Belt, gear, motor or engine drive.

For refinery, pipe line, oil field production, water flooding, salt

water disposal, steam power plant, marine, hydraulic presses,

steel descaling, and all general services.

PUMPS — Regenerative turbine J

Motor, steam turbine, or gasoline-engine drive — flat or Multi-

V-Belt drive, Multi-Wedge drive, Positive belt (timing) drive.

Monobloc regenerative.

For general water, cooling tower, washing systems, small boiler

feed, condensate, circulation, sanitary drinking water, gas-

oline transfer, volatile liquids.

PUMPS — Rotary J

Horizontal and vertical.

Double helical gear and sliding vane type.

Steam-jacketed for handling liquids at high temperatures.

Belt, gear, motor, turbine or engine drive.

All sizes and types.

For viscous or non-viscous liquids.

Either lubricating or non-lubricating liquids.

Marine service, fuel oil, lubricating oil, molasses, etc.

PUMPS — Self priming — (See Construction Equipment and Pumps — Centrifugal) J

PUMPS — Steam J

Direct acting reciprocating.

Horizontal and vertical.

Simplex, duplex.

Cast iron, bronze, cast steel or forged steel fluid ends.

Piston and plunger types.

All sizes and types.

For refinery, pipe line, oil field production, marine, steam power plant, hydraulic presses, chemicals, steam heating systems, fire pumps, etc.

PUMPS — Vacuum J

Single and two stage, air cooled and water cooled.

Rotative dry vacuum — steam or electric motor drive.

Wet vacuum — steam or power drive.

PUMPS — Vertical turbine I and J

Vertical centrifugal pumps for well or wet pit service.

Electric motor, belt, gear, engine or steam turbine drive.

For water supply, irrigation, drainage, cofferdam, dry dock,

dewatering, air conditioning, cooling tower, cargo handling,

circulating, process water, river water intake and other ser-

vices in municipal, agricultural, industrial, utility and marine

applications.

PUMPS — Worhtite — 24% chrome — 20% nickel alloy steel J

Slurry handling. By-product coke, coal tar products, clay,

glass, Glauber's salt, metal refining, petroleum refining,

phosphoric acid, phosphate, pigments, plastics, potash, pulp

and paper, rayon, salt, sugar, vegetable oil, refining, corro-

sive liquid handling-acids, alkalis, etc.

QD (QUICK DETACHABLE) SHEAVES — For driver and driven units. J

(See Mechanical Power Transmission).

REACTOR CIRCULATING BLOWERS — (See Nuclear) J

REACTOR CIRCULATING PUMPS — (See Nuclear) J

REACTOR SYSTEM CHARGING PUMPS — (See Nuclear) J

RECEIVERS — Air and Gas J

RECORDERS G

One to four pen, round chart types.

For recording process conditions of pressure, temperature,

liquid level and rate of flow; receiving and recording signals

from pneumatic transmitters.

REDUCTION GEARS OR SPEED INCREASING GEARS — High speed type . . . J

REFRIGERATION EQUIPMENT A

For fruit storage, meat packing, abattoir, processing plants,

marine, food, testing laboratories, ice-skating rinks.

Ammonia absorption systems, ammonia compression systems,

refrigerants 12, 22, and carbon dioxide. (See also Air Condi-

tioning).

Compressors — Centrifugal reciprocating and rotary types, hori-

zontal, angle, vertical, balanced opposed.

Compressor-Condenser units — (See also Condensers).

REGULATING VALVES, PRESSURE G

Direct or pilot-operated reducing valves.

Direct or pilot-operated back pressure valves.

Differential pressure regulators.
 Pump discharge pressure regulators.
 For regulating pressure of gas, liquids or steam in general industrial service, marine service, industrial processes, power plants. (Refer also to Valves).

ROCK DRILLING EQUIPMENT — (See Construction Equipment)..... J

SEWAGE PLANT AND SEWAGE TREATING EQUIPMENT — (Refer to Product Listings)..... J

SHEAVES QD J
 Quick-detachable sheaves for drives and driven units— Multi- V-Drives. (See Mechanical Power Transmission).

SHEETING DRIVERS — Pneumatic. (See Construction Equipment)..... J

SOOT-BLOWING COMPRESSORS — (See Compressors)..... J

SPEED-CHANGE GEARS — Increasing, decreasing..... J

STEAM POWER PLANT EQUIPMENT — (Refer to Product Listings).

STEAM TURBINES J
 Single and multi-stage (direct connected and geared).
 Straight condensing, straight non-condensing, single and double-automatic extraction, mixed pressure, mixed-pressure extraction.
 For stationary and marine services. For driving centrifugal compressors, pumps, paper machines, sugar mill rolls or knives; forced and induced draft fans; blowers, air or blast furnace service; electric generators; etc. (all units available complete with auxiliaries).

SWITCHES — Pressure..... 6
 Single pole, double throw, snap action, switches positioned by a bellows; one, two or four switches in single explosion-proof, weatherproof housing.
 For actuating signal lights, audible alarms, solenoids, motors and other electrical devices in wide variety of industrial services.

SWITCH BOARDS — Building type..... D and E-1

SWITCH GEAR for A.C. Generators..... E and E-1

TAMPERS (See Construction Equipment)..... J

TRANSDUCERS — Electropneumatic..... B and 6
 Force balance, magnetic force motor type for receiving DC signal.
 For converting electric input signal to proportional pneumatic output signal.
 To operate valves and other pneumatic devices in process and power plants, pipe line service, etc. (Refer also to Valve Actuators).

TRANSMITTERS — Pneumatic..... 6
 Pressure, temperature, differential pressure, rate of flow and liquid level.
 For measuring and transmitting data to indicating, recording and/or controlling receivers in process and power plants, marine service, pipe lines, etc.

TRUCK MIXERS — (Refer to Construction Equipment)..... J

TURBINE GENERATORS (Steam) — direct-connected (all air-cooled sizes) and geared for land and marine service..... J

TURBO MACHINERY J

UNI-BUS MOTOR CONTROL CENTERS — (See Motor Control Centers).... D

UNI-BUS LOW-VOLTAGE DISTRIBUTION PLUG-IN FEEDER BUSWAY..... D

UNIT HEATERS (See Air Conditioning and Heating).

VALVE ACTUATORS B and 6
 Diaphragm actuators (spring or springless type).
 Electrohydraulic Operators.
 Thrust Operators.
 Lever Operators.
 For operating butterfly valves, dampers and louvers, and to load press rolls, etc.
 Differential Piston — For control of variable speed drives, rheostats, pump cams, etc.
 Super Response Pneumatic Positioning — Used where high valve stroke speed is required.
 Toggle Operator — High pressure pneumatic positioning control.
 Electro-Pneumatic Transducer — For conversion of electric mill-amp signal to an accurate, infinitely stable output pressure.
 Pneumatic Hydraulic — Converts pneumatic signals to hydraulic thrusts up to 25,000 pounds, with maximum speed and positioning accuracy.
 Electro-Hydraulic — Conversion of electrical signals to powerful hydraulic forces with maximum speed and positioning accuracy. (Refer also to Automatic Control Equipment).

VALVES, Control B and 6
 Globe, angle, three-way and butterfly types with pneumatic, hydraulic, electric or manual actuators. (See also Valve Actuators). For automatic control of steam, gases, or liquids in process or power plants; in transportation pipe lines including gathering and distributing systems; in general industrial plants; in marine service and in missile ground support applications.

VALVES (Pressure Regulating) — Please refer to Regulating Valves..... 6

VARIABLE SPEED DRIVES, Magnetic..... E

VARIABLE SPEED DRIVES — (See Mechanical Power Transmission)..... J

V-BELTS (See Mechanical Power Transmission)..... J

V-BELT DRIVES (See Mechanical Power Transmission)..... J

V-BELT SHEAVES (See Mechanical Power Transmission)..... J

WAGON DRILLS (See Construction Equipment)..... J

WATER WORKS AND WATER SUPPLY EQUIPMENT..... J
 Refer to product listings.

WAX BARRELLING FILTER PRESSES — For oil refineries..... A

WAX BARRELLING MACHINES — Paraffin..... A

WORTHITE ANTI-CORROSIVE SPECIALTIES..... A
 Valves, pipe, flanges, hose nipples, castings, bars, forgings, wire, welding electrodes, screw machine products.

SALES OFFICES

PRODUCT REFERENCE **A**

Worthington Corporation Air Conditioning and Refrigeration Division

For complete information on products keyed with the letter "A", please direct your inquiries to your nearest sales office listed below:

CALIFORNIA, Los Angeles, 905 Westminster Avenue, Alhambra, Calif.
San Francisco 7, 224 Townsend Street

COLORADO, Denver 2, 1640 Blake Street

DIST. OF COLUMBIA, Washington 5, 1140 Woodward Building

GEORGIA, Atlanta 9, 2095 Liddell Drive, N.E.

ILLINOIS, Chicago 6, 400 W. Madison Street

INDIANA, Indianapolis 2, 1119 N. Delaware Street

LOUISIANA, New Orleans 7, 308 Whitney Building

MASSACHUSETTS, Boston 15, 150 Causeway Street, Room 609
Springfield 3, 496 Bridge Street

MICHIGAN, Detroit 27, 13305 Puritan Avenue

MISSOURI, Kansas City 8, 1608 Baltimore Avenue
St. Louis 3, 3505 Lindell Boulevard

NEW JERSEY, East Orange, Ampere Station

NEW YORK, New York 16, 99 Park Avenue

NORTH CAROLINA, Charlotte 2, 123 No. Poplar Street

OHIO, Cleveland 15, 3111 Carnegie Avenue

OREGON, Portland 14, 1815 S. E. Seventh Avenue

PENNSYLVANIA, Philadelphia, 11 Union Avenue, Bala-Cynwyd, Pa.
Pittsburgh 19, 1219 Plaza Building

TEXAS, Dallas 1, 1701 Mercantile Dallas Building
Houston 1, 3484 W. 12th Street

WISCONSIN, Milwaukee 2, 312 E. Wisconsin Avenue

INTERNATIONAL AC&R SALES OFFICE
NEW JERSEY, Harrison, 401 Worthington Avenue, Harrison, N. J.

Packaged and Commercial Units sold through leading Distributors

AUTOMATIC CONTROL EQUIPMENT

PRODUCT REFERENCE **B**

The Annin Company (A Division of Worthington Corporation)

For complete information on products keyed with the letter "B", please direct your inquiries to your nearest sales office listed below:

ALABAMA, Mobile, Frank A. Thomas Company, 1805 Liberty Street,
P. O. Box 6415

CALIFORNIA, San Francisco 5, Trident Engineering Company, Room 307,
16 Beale Street
2720 E. 3rd Avenue

COLORADO, Denver 6, Denver Engineering Sales Company,
2720 E. 3rd Avenue

CONNECTICUT, West Hartford 7, Joseph H. Bertram Co., Inc.,
998 Farmington Avenue

FLORIDA, Jacksonville 10, Malcolm D. Duncan and Associates,
5719 Salerno Road

GEORGIA, Atlanta 5, Ward K. Stallings Company, 3120 Maple Drive, N.E.

ILLINOIS, Chicago 43, Paul B. Shannon Co., 10336 S. Western Avenue

KENTUCKY, Louisville 2, Control Products Co., Inc., P. O. Box 56,
319A Heyburn Building

MASSACHUSETTS, Boston, Joseph H. Bertram Co., Inc., 570 Hillside
Avenue, Needham Heights 94, Mass.

MICHIGAN, Detroit 12, Smith Instrument & Equipment Co.,
7140 East Davison Avenue
Grand Rapids 2, Smith Instrument & Equipment Co.,
900 N. Monroe

MINNESOTA, Minneapolis 24, Reinertsen Company,
3940 W. 49½ Street, South

MISSOURI, St. Louis 22, Ulmer Equipment Company, 219 Orrick Lane
NEW YORK, Buffalo 7, The Robert H. Perry Company, 1807 Elmwood Avenue
New York 6, The Annin Company, Room 1437, 165 Broadway

NORTH CAROLINA, Charlotte 1, Mec-Tric Control Company,
3819 St. Mary Avenue, P. O. Box 209

OHIO, Cincinnati 19, The Isaacs Co., 2708 Vine Street
Cleveland 7, H. R. Bowers Co., 1585 West 117th Street
Dayton 6, The Isaacs Co., 2676 Salem Avenue

OKLAHOMA, Tulsa, Ben McKalip Company, Inc., 4176 E. Admiral Place,
P. O. Box 15862, Admiral Station

OREGON, Portland 1, Fryer Company, Inc., Sylvan Building,
2035 S.W. 58th Avenue

PENNSYLVANIA, Philadelphia 40, William J. Gallagher Company,
Room 1102, Beury Building, 3701 North Broad Street
Pittsburgh 20, Harold A. Woolman Company,
4 W. Manila Avenue

TEXAS, El Paso, Engineered Equipment, Inc., 421 Frederick Road,
P. O. Box 5282

UTAH, Salt Lake City, Wayne Wiscomb Co., Inc., 1970 South West
Temple, P. O. Box 19, Sugarhouse Station

VIRGINIA, Richmond 30, H. M. Summerell Company,
Suite 105, Seaboard Building, 3414 West Broad Street

WISCONSIN, Appleton, Mason-Neilan Division, Worthington Corporation,
116 South Appleton Street, P. O. Box 873

PISTON-TYPE METERS FOR COLD WATER SERVICE

PRODUCT REFERENCE **C**

Calmet Meter Division Worthington Corporation 2301 S. Main St. (P. O. Box 205)

Fort Worth 10, Texas

For complete information on products keyed with the letter "C", please direct your inquiries to Sales Department, at the above address.

UNI-BUS; UNI-BUS MOTOR CONTROL CENTERS AND SWITCH-BOARDS; ISOLINE SAFETY SWITCHES; ENCLOSED CIRCUIT BREAKERS; MOTOR CONTROL

PRODUCT REFERENCE **D**

Electric Distribution Products, Inc. (A Subsidiary of Electric Machinery Mfg. Company)

For complete information on products keyed with the letter "D", please direct your inquiries to the nearest sales office listed below:

ALABAMA, Mobile, Gregory-Salisbury & Co., P. O. Box 4582

ARIZONA, Phoenix, Mullenbach Division, Electric Machinery Mfg. Co.,
W. C. Osborn, 7116 N. 13th Street

ARKANSAS, Pine Bluff, Gregory-Salisbury & Co., P. O. Box 673

CALIFORNIA, Los Angeles 58, Mullenbach Division, Electric Machinery
Mfg. Co., 2100 E. 27th Street
San Francisco 11, Mullenbach Division, Electric
Machinery Mfg. Co., Fred G. Guthrie, 420 Market Street

CONNECTICUT, Hartford 3, Baynes, Inc., 119 Ann Street

FLORIDA, So. Jacksonville 7, South East Engrg. Services, Inc.,
3668 Old St. Augustine Road, P. O. Box 10143

(Reference D Continued)

GEORGIA, Atlanta 9, Osgood & Associates, Inc., 988 Spring Street, N.W.
 ILLINOIS, Chicago 41, Weldy Associates, Inc., 4201 W. Irving Park Road
 INDIANA, Fort Wayne, Clifford Engineering & Sales Co.,
 1121 Edgewater Avenue
 Indianapolis 7, Clifford Engineering & Sales Co.,
 1801 W. 18th Street
 South Bend, Clifford Engineering & Sales Co.,
 1356 Sunnymede Avenue
 IOWA, Des Moines 9, Deco Engineering Products, 1112 Locust Street
 KANSAS, Shawnee, R. L. Browne Co., 581 7½ Nieman Road
 KENTUCKY, Louisville 5, Clifford Engineering & Sales Co.,
 1905 Bardstown Road
 LOUISIANA, Baton Rouge, Gregory-Salsbury & Co., Route 1, Sharp Road,
 P. O. Box 1128
 New Orleans 12, Gregory-Salsbury & Co., Inc.,
 820 Julia Street
 MASSACHUSETTS, Boston, H. W. Macleod Co., 11 Stillings Street
 MICHIGAN, Detroit 38, Webco, Inc., 15756 Wyoming
 Grand Rapids 6, John M. Perry Co., 2339 Oakwood Drive, S.W.
 MINNESOTA, Minneapolis 15, Electrical Jobbers Equip. Co.,
 619 4th Avenue, South
 MISSISSIPPI, Jackson, Gregory-Salsbury & Co., 350 N. Mart Plaza,
 P. O. Box 9751
 NEBRASKA, Omaha 1, Deco Engineering Products, 712 S. 24th Street,
 P. O. Box 568
 NEW JERSEY, Jersey City 6, D. H. Jones Associates, 40 Journal Square
 NEW YORK, New York, D. H. Jones Associates, 40 Journal Square,
 Jersey City 6, New Jersey
 NORTH CAROLINA, Charlotte, R. W. Chapman & Co., 230 No. Independ-
 ence Boulevard, P. O. Box 4280
 OHIO, Cincinnati 43, Lusty-Thompson Company, 7010 Miami Avenue,
 P. O. Box 582
 Cleveland 14, Lusty-Thompson Company, 2140 Hamilton Avenue
 Columbus 13, Lusty-Thompson Company, 1413 Coburg Road
 OREGON, Portland 14, Mullenbach Division, Electric Machinery Mfg. Co.,
 J. A. Tudor & Assoc., Inc., 1004 S. E. Belmont Street
 PENNSYLVANIA, Philadelphia 1, H. Jones Co., 926 Buttnwood Street,
 P. O. Box 92, Emmaus, Pa.
 Pittsburgh, Porter Electrical Sales Co., P. O. Box 188,
 Murrysville, Pa., 677 Beatly Road, Monroeville, Pa.
 TENNESSEE, Memphis, Gregory-Salsbury & Co., 240 South Parkway E.
 Nashville, Clifford Engineering & Sales Co.,
 855 Brookhollow Road
 VIRGINIA, Richmond 20, Robert W. Fishburne, 1725 Arlington Road
 WASHINGTON, Seattle 1, Mullenbach Division, Electric Machinery Mfg.
 Co., J. A. Tudor & Assoc. Inc., 2605 Western Avenue
 WISCONSIN, Milwaukee, Weldy Associates, Inc., 1403 S. 35th Street
E.D.P. Products are sold through leading Electrical Distributors

ELECTRIC MOTORS; GENERATORS; CONTROL; SWITCHGEAR

PRODUCT REFERENCE E
 (A Subsidiary of
 Worthington Corporation)

For complete information on products keyed with the letter
 "E", please direct your inquiries to your nearest sales office
 listed below:

ALABAMA, Birmingham 4, 700 Eighth Terrace West
 ARIZONA, Phoenix 15, P. O. Drawer 869
 CALIFORNIA, Los Angeles 58, P. O. Box 58213
 San Francisco 11, 420 Market Street
 COLORADO, Denver 2, 1644 Blake Street

DIST. OF COLUMBIA, Washington 6, 1627 K Street, N.W.

FLORIDA, Tampa 1, P. O. Box 445
 GEORGIA, Atlanta, 522 N. McDonough Street, Decatur, Georgia
 ILLINOIS, Chicago 6, 20 N. Wacker Drive
 INDIANA, Indianapolis 4, Roosevelt Building
 LOUISIANA, New Orleans, P. O. Box 5197, 1719 Toledano Street
 MARYLAND, Baltimore 18, 333 East 25th Street
 MASSACHUSETTS, Boston 16, 131 Clarendon Street
 MICHIGAN, Detroit 21, 3117 W. McNichols Road
 Grand Rapids 2, Murray Building
 MINNESOTA, Duluth 4, 6 South 36th Avenue, East
 Minneapolis 13, 800 Central Avenue
 MISSOURI, Kansas City, 203 Muntzel-Keach Bldg., P. O. Box 316,
 Mission, Kansas
 St. Louis 8, 4378 Lindell Boulevard
 MONTANA, Butte, 829 Maryland Avenue, P. O. Box 278
 NEBRASKA, Omaha, 7414 Page, P. O. Box 152
 NEW MEXICO, Albuquerque, P. O. Box 701
 NEW YORK, Buffalo 25, 3493 Harlem Road
 New York 17, 110 E. 42nd Street
 NORTH CAROLINA, Charlotte 2, 116½ East Fourth Street
 OHIO, Cincinnati 6, 2904 Woodburn Avenue
 Cleveland 14, Williamson Building, 215 Euclid Avenue
 OKLAHOMA, Tulsa 1, P. O. Box 727
 OREGON, Portland 9, 1233 N.W. 12th Avenue
 PENNSYLVANIA, Allentown, 2200 31st Street, S.W.
 Philadelphia 3, 1617 Pennsylvania Boulevard
 Pittsburgh 22, Park Building, 355 5th Avenue
 York, P. O. Box 654
 TENNESSEE, Knoxville, P. O. Box 395
 TEXAS, Beaumont, 1050 Railroad, P. O. Box 4093
 Corpus Christi, 643 North Port Avenue, P. O. Box 463
 Dallas 2, Thomas Building, 1314 Wood Street
 El Paso, 511 Hawkins Road, P. O. Box 600
 Houston 1, P. O. Box 1724
 UTAH, Salt Lake City 1, 550 West 7th South Street
 VIRGINIA, Richmond 1, P. O. Box 131
 WASHINGTON, Seattle 1, 2603 Western Avenue
 Spokane 3, East 706 Sprague Avenue
 WEST VIRGINIA, Bluefield, P. O. Box 647
 WISCONSIN, Milwaukee 17, 5906 Port Washington Road, Suite A-126

**ELECTRIC DISTRIBUTION PANELS; SWITCHBOARDS; SWITCHGEAR;
 MOTOR CONTROL CENTERS; LOAD BANKS**

PRODUCT REFERENCE E-1
 Mullenbach Division of
 Electric Machinery Mfg. Company

For complete information on products keyed with the letter
 "E-1", please direct your inquiries to the nearest sales office
 listed below:

ARIZONA, Phoenix, Mullenbach Division, Electric Machinery Mfg. Co.,
 W. C. Osborn, Local Rep., 7116 N. 13th Street
 CALIFORNIA, Los Angeles 58, Mullenbach Division, Electric Machinery
 Mfg. Co., 2100 E. 27th Street
 San Francisco 11, Mullenbach Division, Electric Machinery
 Mfg., Fred G. Guthrie, 420 Market Street
 OREGON, Portland 14, Mullenbach Division, Electric Machinery Mfg. Co.,
 J. A. Tudor & Assoc., Inc., 1004 S.E. Belmont Street
 WASHINGTON, Seattle 1, Mullenbach Division, Electric Machinery Mfg.
 Co., J. A. Tudor & Assoc. Inc., 2605 Western Avenue

SALES OFFICES

LIQUID METERS

PRODUCT REFERENCE

Garon Meter Division Worthington Corporation 296 South Street

Newark 5, New Jersey

For complete information on products keyed with the letter "F", please direct your inquiries to Sales Department, at the headquarters address shown above.

AUTOMATIC CONTROL EQUIPMENT

PRODUCT REFERENCE

Mason-Neilan Division

For complete information on products keyed with the letter "G", please direct your inquiries to your nearest sales office listed below:

ALABAMA, Birmingham 9, Mason-Neilan, Div. of Worthington Corporation, 10 Office Park, Mountain Brook

ARIZONA, Phoenix, Geo. S. Thomson Co., Inc., 915 S. Central Street

CALIFORNIA, Los Angeles 23, Mason-Neilan, Div. of Worthington Corporation, 2822 East Olympic Boulevard

San Francisco 24, D. A. Stevenson & Associates, 1485 Bayshore Boulevard, Room 379

COLORADO, Denver 6, Denver Engineering Sales Co., 2720 E. Third Avenue

FLORIDA, Jacksonville 10, Malcolm D. Duncan and Associates, 5719 Salerno Road

GEORGIA, Atlanta 5, Mason-Neilan, Div. of Worthington Corporation, 3272 Peachtree Road, N.E.

HAWAII, Honolulu, Gaspro, Ltd., 500 Kuwili Street. (m.o.)

ILLINOIS, Chicago, Mason-Neilan, Div. of Worthington Corporation, 64 Old Orchard, Skokie, Ill.

IOWA, Des Moines 10, C. W. Miller, 3843 - 42nd Street

KENTUCKY, Anchorage, Whinery Engineering Co., Glenbrook Road, Log Cabin Lane

LOUISIANA, New Orleans 13, Coastal Engineering Corp., 1500 Tchoupitoulas Street

MASSACHUSETTS, Norwood, Mason-Neilan, Div. of Worthington Corporation, 63 Nahatan Street

MICHIGAN, Detroit, H. H. Barnum Co., 12201 Merriman Road, Livonia

MINNESOTA, St. Paul 1, Fuel Economy Engineering Co., 510 New York Building

MISSISSIPPI, Shreveport, Maintenance Engineering Corporation, P. O. Box 175

MISSOURI, Kansas City 11, The Condit Company, 4050 Broadway
St. Louis 3, O'Brien Equipment Co., 2832 Olive Street

NEW JERSEY, Upper Montclair, Mason-Neilan, Div. of Worthington Corporation, 266 Bellevue Avenue

NEW MEXICO, Albuquerque, Geo. S. Thomson Co., Inc., 316 Central Avenue, S.W.

NEW YORK, Buffalo, R. S. Brookman Associates, 25 Anderson Road, Cheektowaga

New York 22, Mason-Neilan, Div. of Worthington Corporation, 375 Park Avenue

Rochester, R. S. Brookman Associates, 1664 Monroe Avenue
Syracuse, Mason-Neilan, Div. of Worthington Corporation, 9 E. Genesee Street, Skaneateles

OHIO, Cincinnati 15, Jay Instrument & Specialty Co., 9966 Springfield Pike
Cleveland 34, Process Valve & Equipment Co., 4517 Brookpark Road

OKLAHOMA, Tulsa 19, The Condit Company, 1011 S. Main Street
OREGON, Portland 1, Fryer & Co., 2035 S.W. 58th Avenue

PENNSYLVANIA, Philadelphia, Mason-Neilan, Div. of Worthington Corporation, 6908 Market Street, Upper Darby
Pittsburgh 34, Mason-Neilan, Div. of Worthington Corporation, 3833 Willow Avenue

TEXAS, Corpus Christi, Maintenance Engineering Corp., 225 Campbell Lane
El Paso, Geo. S. Thomson Co., 611 N. Campbell Street

Houston 10, Maintenance Engineering Corporation, 3711 Clinton Drive
Midland, Basin Engineering Corporation, 3405 Bankhead Highway

UTAH, Salt Lake City 10, Denver Fire Clay Co., 475 West Fifth North
VIRGINIA, Richmond 26, Mason-Neilan, Div. of Worthington Corporation, 6002 West Broad Street

WISCONSIN, Appleton, Mason-Neilan, Div. of Worthington Corporation, 116 So. Appleton Street

RESIDENTIAL AND COMMERCIAL AIR CONDITIONING AND HEATING EQUIPMENT

PRODUCT REFERENCE

Mueller Climatrol Division

For complete information on products keyed with the letter "H", please direct your inquiries to your nearest sales office listed below:

CALIFORNIA, Los Angeles, 1024 Westminster Avenue, Alhambra, Calif.

FLORIDA, Sarasota, 1833 Datura Street

GEORGIA, Atlanta, 3097 Maple Drive, N.E.

ILLINOIS, Springfield, 1210 W. Stoughton Street, Urbana, Ill.

IOWA, Des Moines, 1446 - 57th Street

KANSAS, Kansas City, 7615 Marty, Overland Park, Kansas

MASSACHUSETTS, Boston, Tenney Street, R.D. #4, Georgetown

MICHIGAN, Detroit, 8901 West Outer Drive,

East Lansing, 2224 Greenclyff Drive

MISSOURI, St. Louis 3, 3505 Lindell Boulevard

St. Louis 19, 219 Gray Avenue

NEW JERSEY, Camden, 106 - 3rd Avenue, Merchantville, N. J.

NEW YORK, Albany 3, 2 Circle Lane, Apt. 28-D

Buffalo, 336 Clark Drive, Kenmore 23, N. Y.

NORTH CAROLINA, Charlotte, 1709 Masonic Drive

OHIO, Cincinnati 38, 967 Glenna Drive

PENNSYLVANIA, Philadelphia, 113 Blue Ridge Road

York, 2460 Auburn Road

WASHINGTON, Seattle, 6056 50th S.W.

WISCONSIN, Madison, 1809 Helene Parkway Apt. 1
Milwaukee, 2005 W. Oklahoma Avenue

INTERNATIONAL SALES

NEW JERSEY, Harrison, 401 Worthington Avenue, Harrison, New Jersey

Mueller Climatrol Division Products are sold through leading dealers and distributors of air conditioning and heating equipment.

SALES OFFICES

VERTICAL TURBINE PUMPS (REFER ALSO TO PRODUCT REFERENCE J)

Vertical Turbine Pumps are manufactured by two Worthington Divisions:

PRODUCT REFERENCE J	Vertical Turbine Pump Division Denver, Colorado
	Wintroath Pumps Division Alhambra, California

Products of both divisions are sold by leading distributors. Please refer to sales offices listed under "J" or:

WINTROATH PUMPS DIVISION SALES OFFICES — REFERENCE I — as follows:

ARIZONA, Phoenix, 4020 E. Washington
CALIFORNIA, Alhambra, Sales Department, Wintroath Pumps Division,
Worthington Corporation, 1100 S. Meridian Avenue
Bakersfield, 101 Sonora Street
Fresno, 2591 N. Marks Avenue
Tulare, "L" & Owen Streets
IDAHO, Burley, 1118 Overland
Idaho Falls, S. Yellowstone Highway

INTERNATIONAL SALES

NEW JERSEY, Harrison, 401 Worthington Avenue, Harrison, N. J.

(For other locations, please refer to sales offices listed under "J".)

AIR AND GAS COMPRESSION EQUIPMENT; — PUMPS; — *CENTRIFUGAL, *ROTARY, *STEAM, *POWER, AND *VERTICAL TURBINE; — ENGINES; — STEAM CONDENSERS, FEEDWATER HEATERS AND STEAM-JET EJECTORS; — STEAM TURBINES; — *CONSTRUCTION EQUIPMENT; — *MECHANICAL POWER TRANSMISSION; — INDUSTRIAL MIXERS

*Standard Products Lines are sold through leading distributors.

PRODUCT REFERENCE J	Worthington
	District Sales Offices

For complete information on products keyed with the letter "J", please direct your inquiries to your nearest Worthington sales office or representative listed at right (or your nearby Worthington distributor listed in the Yellow pages of your local telephone directory).

Factory Warehouses and Parts Service in Fifteen Strategic Locations for Prompt Delivery.

Reference J — Worthington Sales Offices

ALABAMA, Birmingham 3, 10 Office Park Circle
Mobile, 3158 Old Shell Road
CALIFORNIA, Los Angeles 54, 5075 Santa Fe Avenue
San Diego 4, 2144 Elcagion Boulevard
San Francisco 7, 224 Townsend Street
COLORADO, Denver 2, 1640 Blake Street
DELAWARE, Wilmington 1, 1720 Pennsylvania Avenue
DIST. of COLUMBIA, Washington 5, 1140 Woodward Building
GEORGIA, Atlanta 9, 2095 Liddell Drive, N.E.
ILLINOIS, Chicago 6, 400 West Madison Street
INDIANA, Indianapolis 20, 1119 North Delaware Street
LOUISIANA, Baton Rouge, 2987 Government Street
New Orleans 7, 308 Whitney Building
Shreveport, 302 Sklar Building
MARYLAND, Baltimore 2, 210 East Saratoga Street
MASSACHUSETTS, Boston 15, 150 Causeway Street, Room 609
Springfield 3, 496 Bridge Street
MICHIGAN, Detroit 27, 13305 Puritan Avenue
MINNESOTA, Minneapolis 4, 807 13th Avenue, South
MISSOURI, Kansas City 8, 1608 Baltimore Avenue
St. Louis 3, 3505 Lindell Boulevard
NEBRASKA, Omaha 2, 1120 Woodmen of the World Building
NEW JERSEY, Newark, 401 Worthington Avenue, Harrison, N. J.
NEW YORK, Buffalo 2, 43 Court Street
New York 16, 99 Park Avenue
Rochester 20, 907 Monroe Avenue
Syracuse 2, 624 State Tower Building
NORTH CAROLINA, Charlotte 3, 2415 Park Road
OHIO, Cincinnati 2, 707 Race Street
Cleveland 15, 3111 Carnegie Avenue
OKLAHOMA, Tulsa 20, 175 North Lansing Street
OREGON, Portland 14, 1815 S.E. Seventh Avenue
PENNSYLVANIA, Philadelphia, 11 Union Avenue, Bala-Cynwood, Pa.
Pittsburgh 19, 1219 Plaza Building
TENNESSEE, Knoxville 2, 208 Daylight Building
TEXAS, Amarillo, Amarillo Building
Beaumont, 2448 Calder Avenue
Corpus Christi, 406 Oil Industries Building
Dallas 1, Mercantile Dallas Building
El Paso, 303 No. Oregon Street
*Fort Worth, Room 708, Texas and Pacific Terminal Warehouse
Fort Worth, 712 Fort Worth Bank Building
Houston 1, 3484 West 12th Street
Midland, 124 Mid-America Building
San Antonio 12, 6936 San Pedro Avenue
UTAH, Salt Lake City 11, 118 Social Hall Avenue
WASHINGTON, Seattle 1, 2616 Western Avenue
WEST VIRGINIA, Charleston 1, 1216 Quarrier Street
WISCONSIN, Milwaukee 2, 312 E. Wisconsin Avenue
*For Mechanical Power Transmission and Construction Equipment

INTERNATIONAL SALES

NEW JERSEY, Harrison, 401 Worthington Avenue, Harrison, N. J.

Regional Engineering and Service Offices

CALIFORNIA	San Francisco	NEW JERSEY	Harrison (International)
ILLINOIS	Chicago	OHIO	Cleveland
NEW JERSEY	East Orange	TEXAS	Houston

Plants

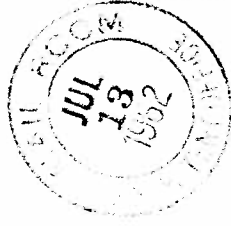
ALABAMA	Decatur	NEW JERSEY	East Orange
CALIFORNIA	Alhambra (So. Meridian Ave.)		Harrison
	Alhambra (Westminster Ave.)		Newark
	Los Angeles	NEW YORK	Plainfield
	Montebello		Buffalo
COLORADO	Denver	PENNSYLVANIA	Wellsville
MASSACHUSETTS	Holyoke		Allentown
	Norwood	TEXAS	Oil City
MINNESOTA	Minneapolis (Central Ave.)		Fort Worth
	Minneapolis (Tyler Street)	WISCONSIN	Hereford
			Milwaukee

Worthington Corporation

General Offices: HARRISON, NEW JERSEY

Wholly owned subsidiary

Electric Machinery Mfg. Company, Minneapolis, Minn.



Associated and Subsidiary Companies:

ARGENTINA	Buenos Aires	Worthington Ltd.
AUSTRIA	Vienna	Worthington Gesellschaft m.b.H.
BRAZIL	Rio de Janeiro	Worthington, S.A. (Maquinas)
CANADA	Brantford, Ont.	Worthington (Canada) Ltd.
COLOMBIA	Bogota	Worthington Ltd.
ENGLAND	London	Worthington-Simpson Ltd.
FRANCE	Paris	Société Worthington
GERMANY	Hamburg	Deutsche Worthington G.m.b.H.
ITALY	Milan	Worthington Società Italiana Pompe e Compressori, S.p.A.
	Naples	Worthington International, S.p.A.
JAPAN	Tokyo	Nigata Worthington Co., Ltd.
MEXICO	Mexico 1, D.F.	Worthington de Mexico, S.A.
PANAMA	Panama City	Worthington International, Inc.
SPAIN	Madrid	Worthington, S.A.
VENEZUELA	Caracas	Worthington International, Inc.

9835

TRADE MARK DIVISION

JAN 7 1946

APPLICATION FOR TRADE MARK REGISTRATION

MARK: WORTHINGTON
CLASS: 23

TO THE COMMISSIONER OF PATENTS:

WORTHINGTON CORPORATION
a Corporation of the State of Delaware
Business Address: 401 Worthington Avenue, Harrison, New Jersey

STATEMENT

The above identified applicant, WORTHINGTON CORPORATION, has adopted and is using the Trade Mark shown in the accompanying drawing for:

Pumps, Compressors, Blowers, Ejectors, Internal Combustion Engines, Comminutors, Condensing and Evaporating Apparatus, Accumulators, Oil Separators, Boiler Feedwater Apparatus, Machinery, Apparatus and Valve Elements for raising, forcing, controlling and regulating flow of liquids, gases or steam.

and requests that said mark be registered in the United States Patent Office on the Principal Register established by the Act of July 5, 1946.

The trademark was first used in the Year 1845; was first used in interstate commerce in the Year 1875; and is now in use in such commerce. The mark has become distinctive of applicant's goods as a result of substantially exclusive and continuous use in interstate commerce for the five years next preceding the date of filing of this application.

The mark is used by applying it cast in the goods, by large labels, stampings, and castings affixed to the goods, and five photos showing the mark as actually used are presented herewith.

POWER OF ATTORNEY

The applicant hereby appoints DANIEL H. BOBIS, 401 Worthington Ave. Harrison, New Jersey, Registration No. 16694, and a member of the Bar of the State of New York, to prosecute this application for registration of the above

identified mark, to transact all business in the Patent Office in connection therewith, and to receive the Certificate of Registration.

DECLARATION

GEORGE F. HABACK, being sworn, states that he is one of the Vice Presidents of WORTHINGTON CORPORATION and is authorized to execute this affidavit of said corporation; he believes said corporation to be the owner of the mark sought to be registered; to the best of his knowledge and belief no other person, firm, corporation, or association has the right to use said mark in commerce, either in the identical form or in such near resemblance thereto as might be calculated to deceive; and the facts set forth in this application are true.

WORTHINGTON CORPORATION

George F. Haback
George F. Haback
Vice President

ATTEST:

W. Johnson
Assistant Secretary

Subscribed and sworn to before me this 21st day of May 1956.

Douglas A. Spruign
Notary Public
NOTARY PUBLIC OF NEW JERSEY
My Commission Expires Oct. 16, 1958

ADDRESS ONLY
THE COMMISSIONER OF PATENTS &
TRADEMARK OPERATION
WASHINGTON 25, D. C.

DEPARTMENT OF COMMERCE
UNITED STATES PATENT OFFICE
WASHINGTON

ph

All communications respecting
this application should give the
serial number, date of filing,
and name of the applicant.

MAILED . . . NOVEMBER 12, 1956

┌ DANIEL H. BOBIS
401 WORTHINGTON AVE.
HARRISON, N. J.

Applicant: WORTHINGTON CORPORATIOC

└ Class No.: 23
Serial No.: 9835
Filed: JUNE 7, 1956
For Mark: WORTHINGTON

NOTICE OF PUBLICATION

The application for Registration of the mark identified above has been examined and in compliance with section 12 (a) of the Trademark Act of 1946 has been approved for publication in the Official Gazette of

DEC. 4, 1956

Any person who believes he would be damaged by the registration of this mark upon the Principal Register may, upon payment of the required fee, oppose the same by filing notice of opposition, stating the grounds therefor, in the Patent Office within 30 days after the publication thereof, which said notice of opposition shall be verified by the person filing the same before one of the officers mentioned in section 11 of the Trademark Act of 1946.

If no notice of opposition is filed within the time specified by rules 2.101 and 2.102 of the Trademark Rules, the Commissioner of Patents may issue a Certificate of Registration.

Copies of the Trademark portion of the Official Gazette containing the publication of the mark may be obtained as soon as published at 20 cents each from the Superintendent of Documents, Government Printing Office.

By direction of the Commissioner.

SGD. J. H. MERCHANT

451374



APPLICATION FOR TRADE MARK REGISTRATION

MARK: WORTHINGTON
CLASS: 23

TO THE COMMISSIONER OF PATENTS:

WORTHINGTON CORPORATION, a Corporation of the State of Delaware
Business Address: 401 Worthington Avenue, Harrison, New Jersey

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A handwritten signature in cursive script, appearing to read "Daniel H. Bobis".

page 2

identified mark, to transact all business in the Patent Office in connection therewith, and to receive the Certificate of Registration.

DECLARATION

GEORGE F. HABACH, being sworn, states that he is one of the Vice Presidents of applicant corporation and is authorized to execute this affidavit of said corporation; he believes said corporation to be the owner of the mark sought to be registered; to the best of his knowledge and belief no other person, firm, corporation, or association has the right to use said mark in commerce, either in the identical form or in such near resemblance thereto as might be calculated to deceive; and the facts set forth in this application are true.

ATTEST:

George F. Habach
Vice President

Subscribed and sworn to before me this day of 1956.

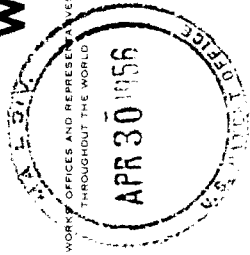
Notary Public

W

WORTHINGTON CORPORATION



CABLE ADDRESS
WORTHINGTON, HARRISON



WORKS OFFICES AND REPRESENTATIVES
THROUGHOUT THE WORLD

GENERAL OFFICES

HARRISON, NEW JERSEY

April 19, 1956

The Commissioner of Patents
Washington 25, D. C.

Dear Sir:

Enclosed is check for \$25 in payment of the government filing
fee in the application for registration of trademark "WORTHINGTON"
filed herewith.

copy

DHB:CL

encls. - check

T.M. application

5 photos

1 sheet of drawings

Respectfully submitted,

Daniel H. Bobis
Daniel H. Bobis
Attorney of Record

ADDRESSES ONLY
THE COMMISSIONER OF PATENTS
TRADEMARK OPERATIONS
WASHINGTON 25, D. C.

DEPARTMENT OF COMMERCE
UNITED STATES PATENT OFFICE
WASHINGTON

Daniel H. Bobis
401 Worthington Ave.
Harrison, N. J.

Applicant: Worthington Carry-
crations

Mark: Pumps, compressors, blowers,
ejectors, internal combustion
engines

The papers purporting to be an application for trademark registration have been received, but they cannot be given a filing date for the following checked reasons:

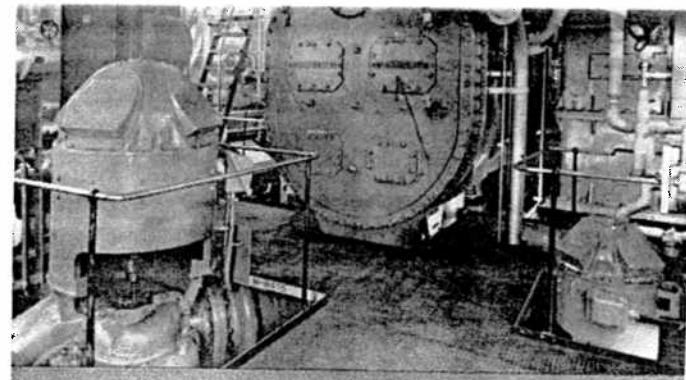
- Applicant's name is omitted.
- Applicant's domicile is omitted.
- Applicant's citizenship is omitted.
- The date of first use of the mark is omitted.
- The date of first use of the mark in commerce is omitted.
- Present use in commerce does not appear.
- No goods or services are identified.
- The mode or manner of using the mark is not stated.
- Application not verified in front of Notary Public**
The oath is insufficient. (See Sec. 1 of statute and Rule 2.33(b).)
- Notary's authority is omitted.
- The consular certificate was not attached.
- The statutory fee has not been received.
- A drawing of the mark has not been received.
- Specimens showing the mark as actually used have not been received.

The papers will be held for six months, and if not completed within that time they will be disposed of, or, on request, will be returned.

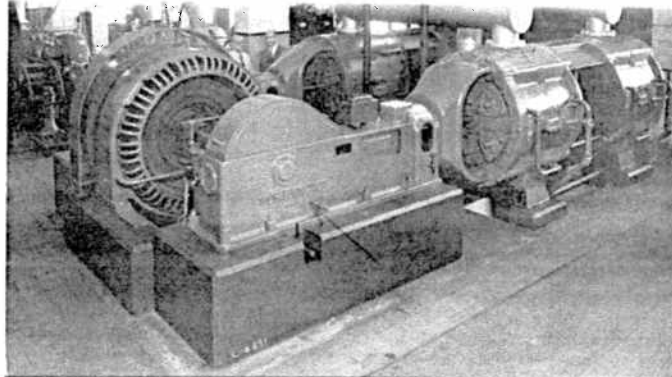
J. H. Merchant

J. H. Merchant
Director
Trademark Examining Operation

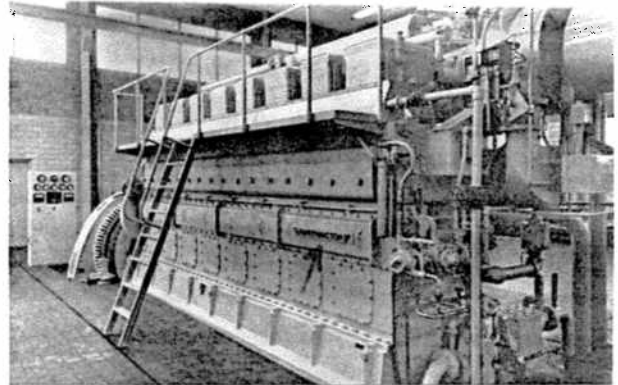
U.S. PATENT OFFICE
APR 30 1956



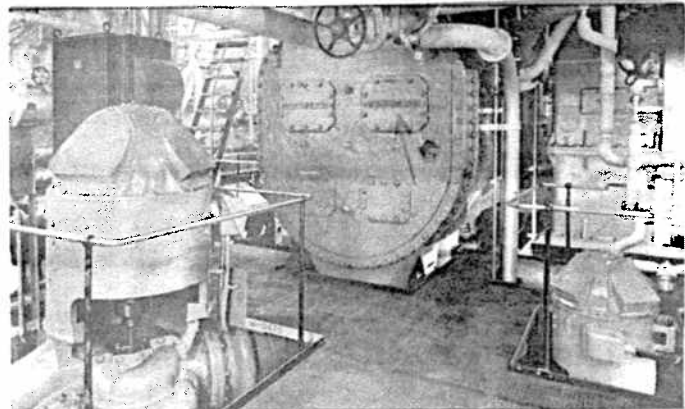
Surface condenser and main circulating pump aboard ship



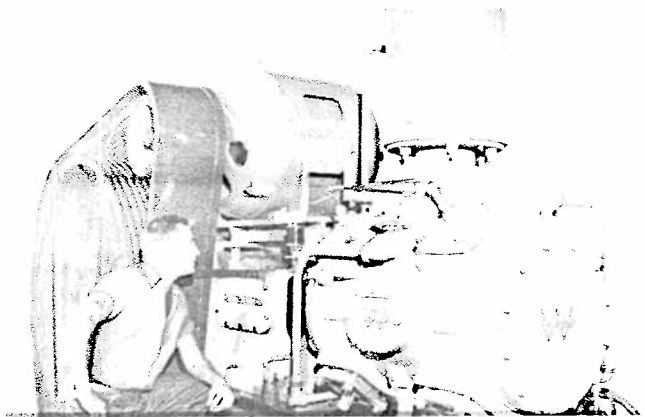
Four cylinder, two-stage dry vacuum pump in a chemical company



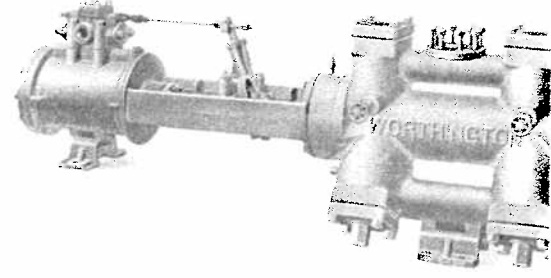
Diesel engine in a modern municipal power plant



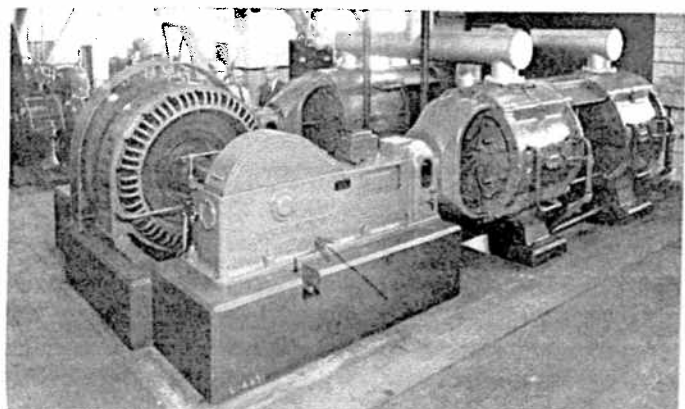
Surface condenser and main circulating pump aboard ship



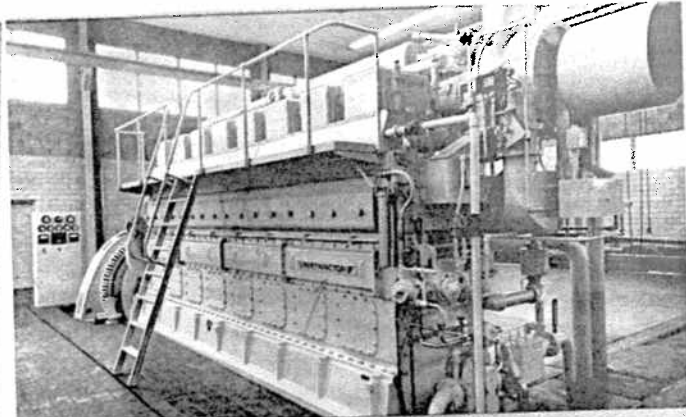
Single horizontal belt driven compressor with overhead motor mounting. Type HB, sizes 5 to 125 hp



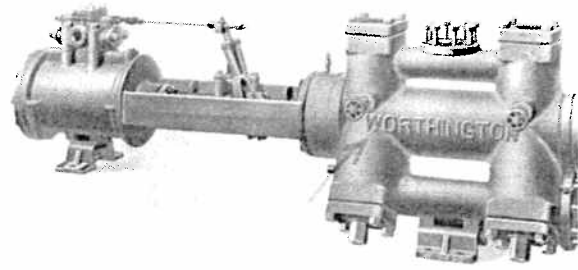
Close clearance steam pump for volatile liquids



Four cylinder, two-stage dry vacuum pump in a chemical company



Diesel engine in a modern municipal power plant

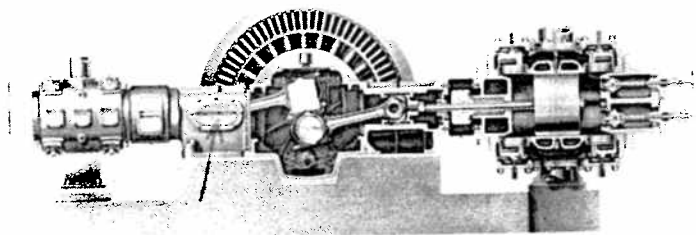


Close clearance steam pump for volatile liquids

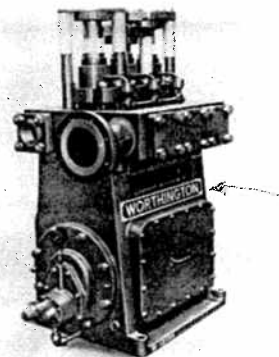
HARRISON, NEW JERSEY



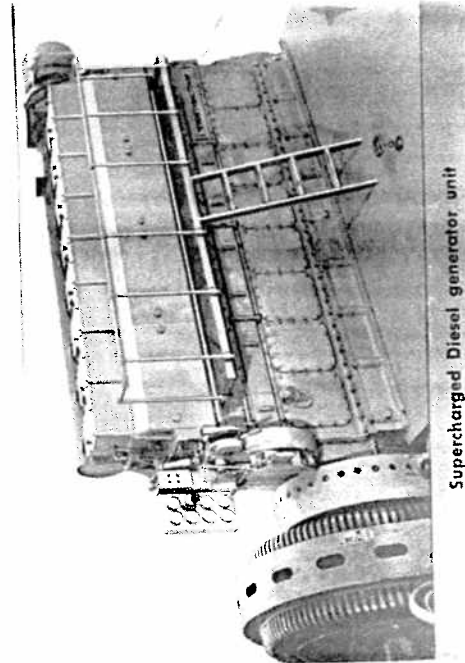
Portable compressor on road repair service



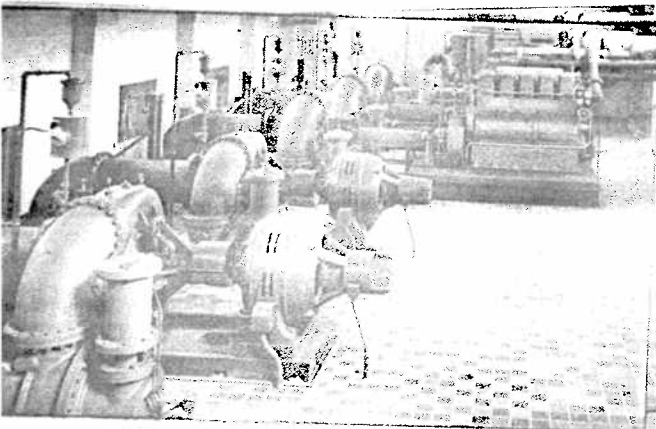
Cutaway drawing of balanced opposed refrigeration compressor



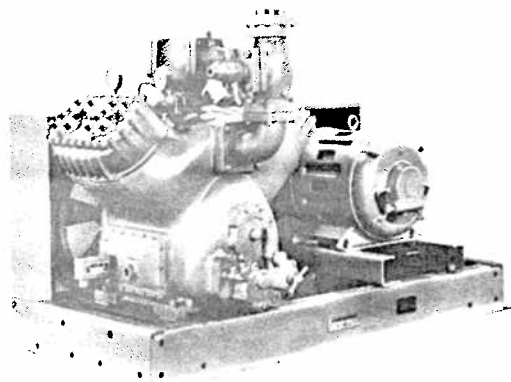
Vertical triplex high pressure power pump



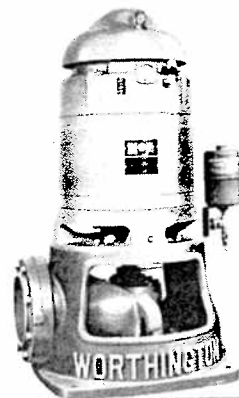
Supercharged Diesel generator unit



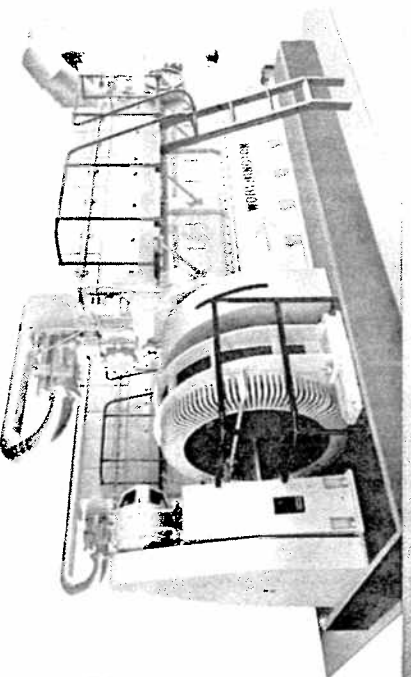
Five Mixflo centrifugal sewage pumps



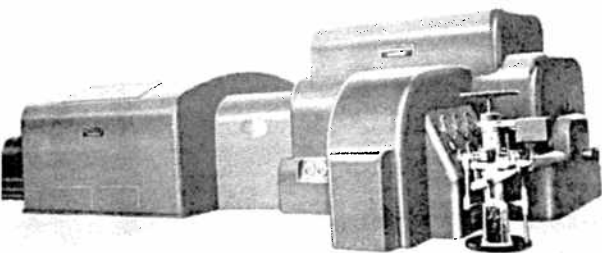
Refrigeration compressor



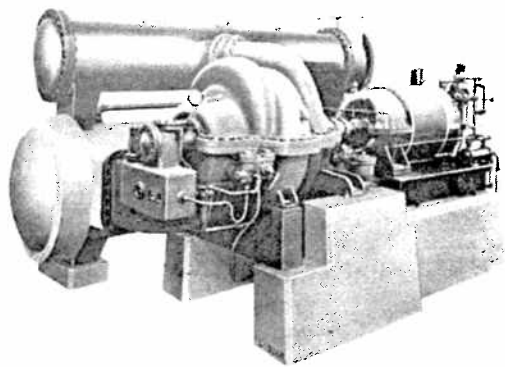
Vertical turbine pump



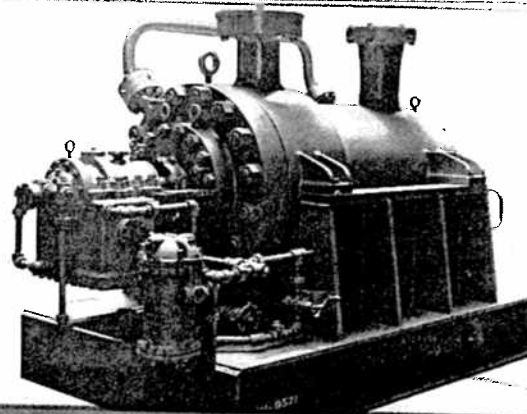
Gas engines—175 to 4000 horsepower



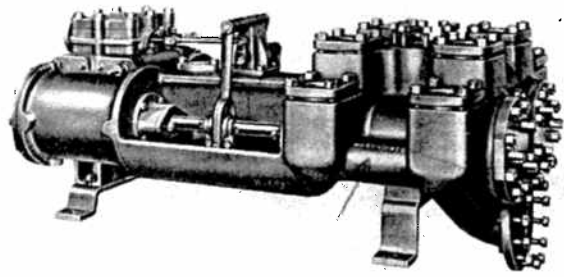
Steam turbine generators up to 12,650 kilowatts



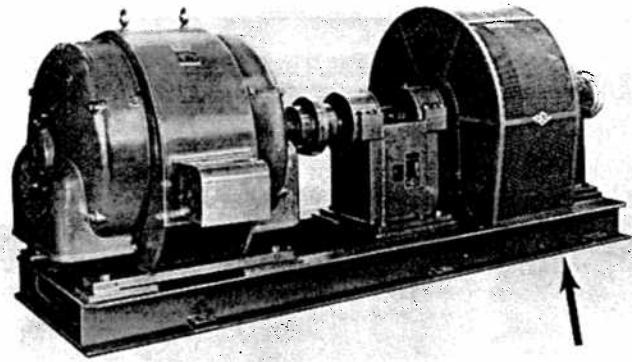
Centrifugal refrigeration compressor



High pressure centrifugal pump with forged steel casing



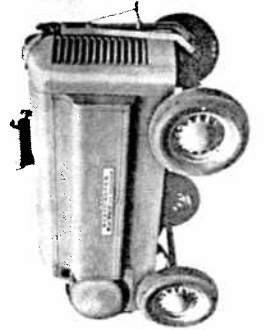
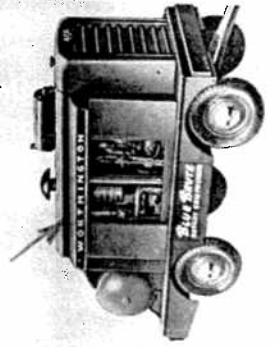
Duplex pot valve steam pump



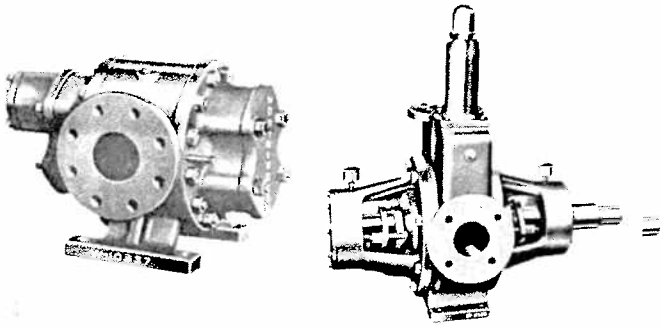
Magnetic variable speed drive



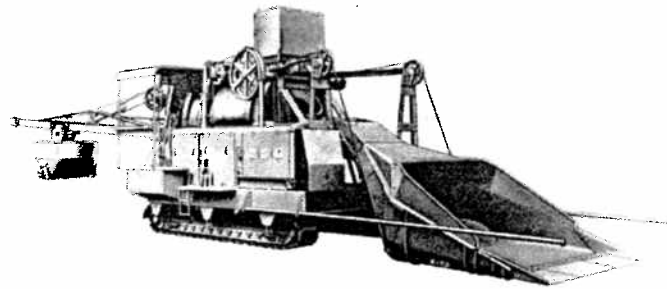
Truck-mounted concrete mixer



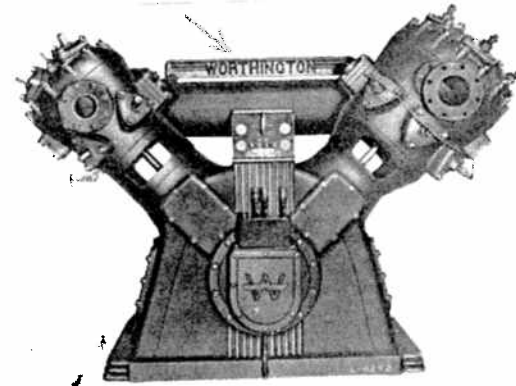
Portable compressor, from 55 to 600 cubic feet capacity



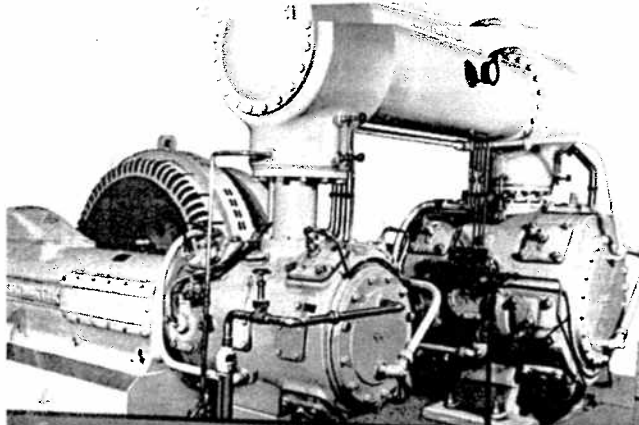
Rotary pumps, motor driven



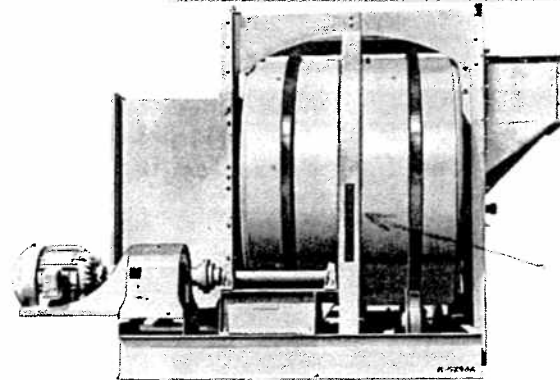
Dual drum paver



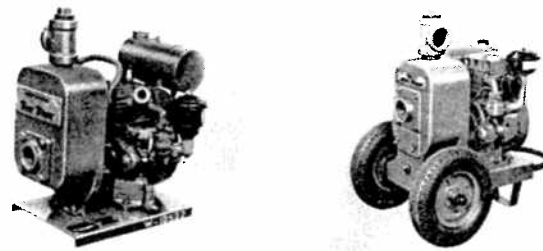
Two-stage, Feather® Valve, Y type compressor



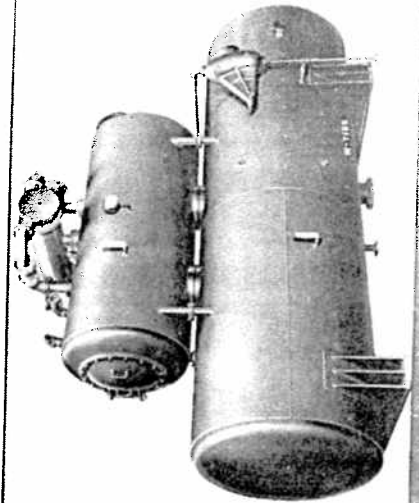
600 hp duplex two-stage Feather® Valve air compressor
in western smelting plant



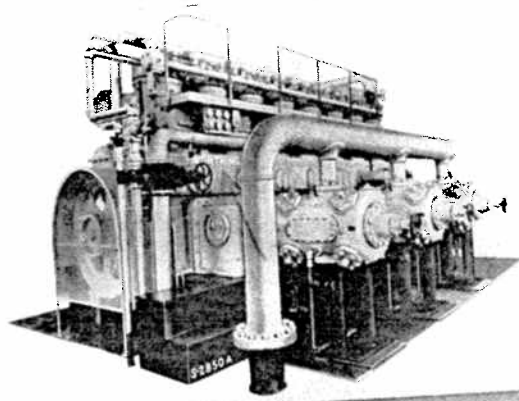
Industrial mixer



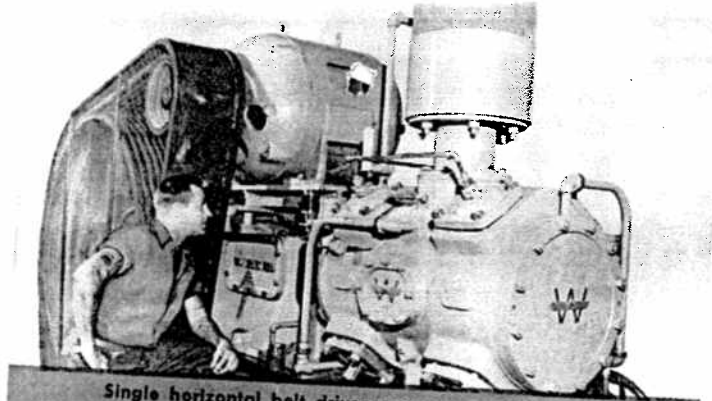
Self-priming portable centrifugal pumps



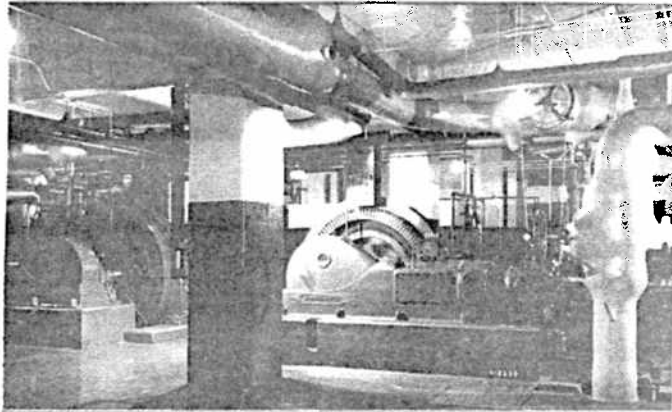
Deaerator



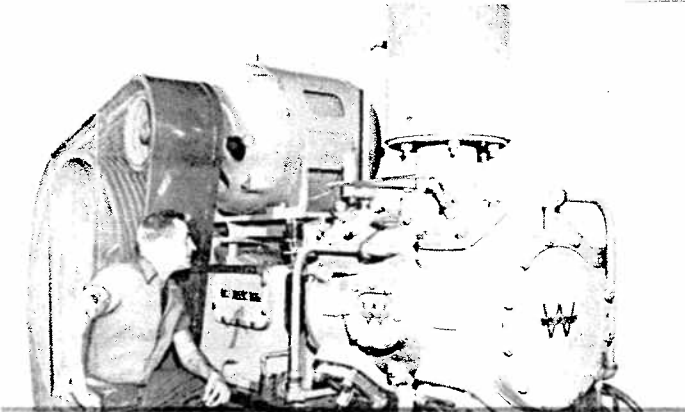
Angle two-cycle gas engine compressor



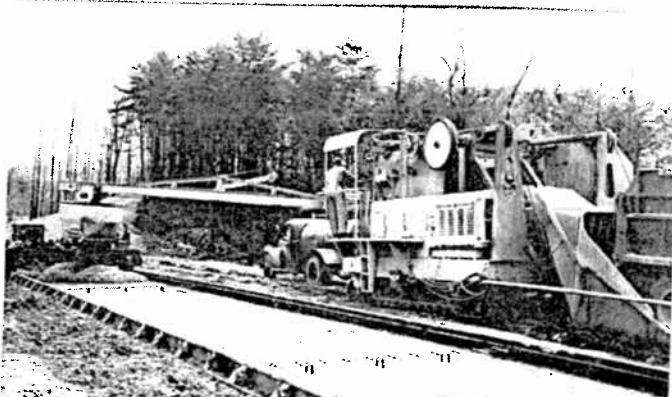
Single horizontal belt driven compressor with overhead motor mounting. Type HB, sizes 5 to 125 hp



Synchronous motor driven duplex ammonia refrigeration compressor in large food packing plant



Single horizontal belt driven compressor with overhead motor mounting. Type HB, sizes 5 to 125 hp



Single-drum paver on road construction