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VOLUME 31—1939

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## *Still more cracking*

Although runs of crude to stills last week (Oct. 28) declined sharply from the all time high rate of the preceding week, production of gasoline went still higher to establish a new record—  
CHICAGO JOURNAL OF COMMERCE, Nov. 2, 1939

Here are the significant facts:

Refiners ran 910,000 barrels less crude in the week ended October 28 than the week before, yet they made 50,000 barrels more gasoline. Figures are from the American Petroleum Institute.

That's important—it means that cracking is gaining more than ever. The more cracking the better—for refiners and their customers.

Dubbscracking is the way to make the biggest yield of the best kind of gasoline from any kind of oil.

And at lowest cost—royalty and all.

Universal Oil Products Co  
Chicago, Illinois



Dubbs Cracking Process  
Owner and Licensor



# CHEMICAL MARKET PRICES

## NOVEMBER 17, 1939

Compiled from weekly current price listings in the *Oil, Paint and Drug Reporter*, with permission of the publisher under its copyright. These prices, unless otherwise specified, are those prevailing in the New York market for technical grades in usual large commercial quantities.

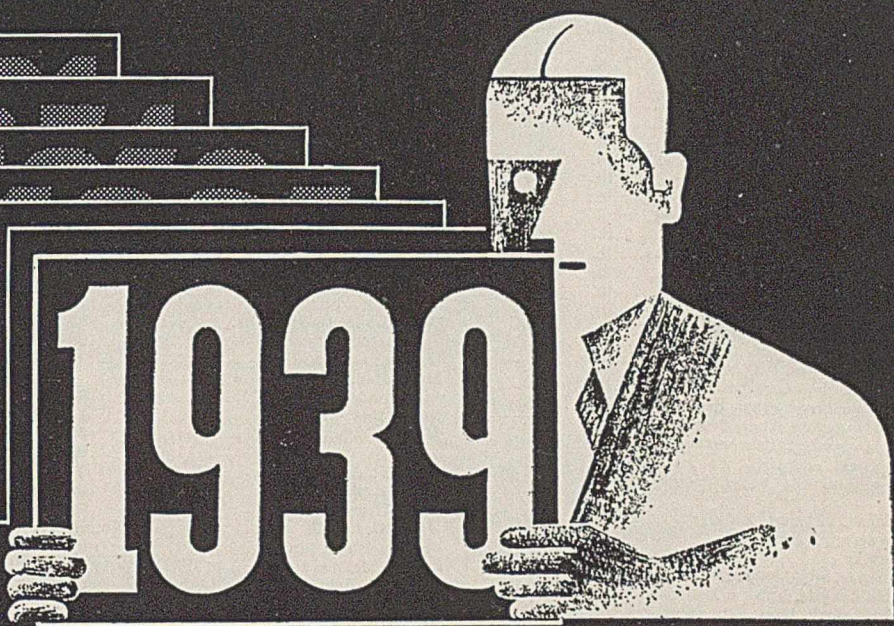
Acetaldehyde, drums, c/l, wks....lb.	.11	Alcohol isobutyl, ref., drums.....lb.	.073	Bismuth nitrate, cans.....lb.	1.30
Acetamide, tech., kegs, 200-lb. lots, works.....lb.	.30	Isopropyl, ref., 91% drums, c/l, f. o. b. dest.....gal.	.33½	Oxychloride, kegs.....lb.	3.10
Acetanilide, tech., 95% bbls.....lb.	.29	Wood, see Methanol		Subnitrate, powd., fib. drums.....lb.	1.48
Acetic anhydride, drums, c/l, frt. allowed.....lb.	.10½	Aldol, 95%, drums, c/l, works....lb.	.11	Blanc fixe, dry, bags, c/l.....ton	47.50
Acetone, c. p., drums, c/l, divd....lb.	.07	Alpha-naphthol, bbls.....lb.	.52	Bleaching powder, drums, wks. 100 lbs.	2.00
Acetophenone, drums, 100 lbs.....lb.	1.05	Alpha-naphthylamine, bbls.....lb.	.32	Bone black, 4, bbls., c/l, frt. allowed E.....lb.	.08½
Acetphenetidin, bbls., 1000 lbs.....lb.	1.00	Alum, ammonia, lump, bbls., wks. ....100 lbs.	3.40	Borax, tech., gran., sks.....ton	43.00
Acid, abietic, drums, c/l.....lb.	.08¾	Potash-chrome, bbls.....100 lbs.	6.25*	Bordeaux mixture, drums.....lb.	.11
Acetic, 28%, bbls., c/l.....100 lbs.	2.23	Potash, lump, bbls., wks....100 lbs.	3.65	Bromine, cases.....lb.	.30
56%, bbls., c/l.....100 lbs.	4.15	Soda, bbls., wks.....100 lbs.	3.25	Bromoform, jars.....lb.	1.40
Glacial, synth., drums, c/l.100 lbs.	8.43	Aluminum, metal, 98-99%, drums, c/l. lb.	.20	Butyl acetate, drums, c/l, frt. allowed.....lb.	.09
Glacial, U. S. P., drums, c/l.....100 lbs.	10.25	Chloride, anhyd., commercial, drums extra, c/l, wks.....lb.	.08	Aldehyde, drums, l. c. l.....lb.	.16½
Acetylsalicylic, U. S. P., bbls.....lb.	.40	Stearate, 100-lb. bbls., c/l.....lb.	.17½	Carbinol, norm., drums, wks....lb.	.60
Anthranilic, tech., bbls.....lb.	.75	Sulfate, comm'l., bags, c/l, wks., frt. equal.....100 lbs.	1.15	Lactate, drums.....lb.	.22½
Battery, cbys., c/l, E. wks.100 lbs.	1.60	Iron-free, bags, wks.....100 lbs.	1.45	Stearate, drums.....lb.	.26
Benzoic, tech. bbls.....lb.	.43	Ammonia, anhydrous, fertilizer, tanks (50,000 lbs.), wks.....lb.	.04½	Cadmium, metal, ingots, cases.....lb.	.75
Boric, tech., gran., bbls.....ton	106.00	Pure, cysl.....lb.	.16	Bromide, 25-lb. jar.....lb.	1.61
Butyric (99%), drums, c/l, wks...lb.	.22	Ammonia, aqua, 26°, tanks (on NH <sub>3</sub> content), divd. E.....lb.	.05½	Sulfide, boxes.....lb.	1.35
Chloroacetic, mono-, tech., bbls., wks.....lb.	.15	Ammonium acetate, kegs.....lb.	.27	Caffeine, 100-lb. drums, 10,000 lbs. or more.....lb.	2.20
Chlorosulfonic, drums, c/l, wks. lb.	.03½	Bifluoride, bbls.....lb.	.14½	Calcium acetate, bags.....100 lbs.	1.90
Chromic, 99%, drums.....lb.	.15½	Bromide, bbls.....lb.	.35	Arsenate, bbls.....lb.	.06½
Cinnamic, bottles.....lb.	2.85	Carbonate, tech., bbls.....lb.	.08	Carbonate, precip., bags, 50 lbs., c/l, wks.....lb.	.02½
Citric, cryst., bbls., c/l.....lb.	.20	Chloride, gray, bbls.....100 lbs.	5.50	Chloride, bags, flake, c/l, divd...ton	22.00
Cresylic, H. B., drums, c/l, wks., frt. equal.....gal.	.58*	U. S. P. gran., bbls.....lb.	.12	Glucanate, U. S. P., bbls., 125 lbs. lb.	.50
Formic, 90%, cbys., f. o. b. stock points, c/l.....lb.	.10½	Iodide, 25-lb. jars.....lb.	3.65	Phosphate, dibasic, 38-42% P <sub>2</sub> O <sub>5</sub> , bags, Atlan. pts.....unit-ton	No prices
Gallic, tech., bbls.....lb.	.70*	Linoleate, 80%, anhyd., bbls....lb.	.11	Tribas, bbls.....lb.	.0635
Hydroiodic, 57%, 5-lb. bot.....lb.	2.75	Nitrate, tech., bags, c/l, wks. 100 lbs.	4.35	Calomel, bbls., kegs, 50 lbs. or more. lb.	2.57
Hydrobromic, 10%, U. S. P., cbys., wks.....lb.	.20	Oleate, bbls.....lb.	.11	Camphor, synthetic, gran., powd., drums, ton lots.....lb.	.35
Hydrochloric, 20°, tanks, wks....100 lbs.	1.15	Oxalate, kegs.....lb.	.19	Carbazole, 95%, drums, ton lots, wks. lb.	.70
Hydrofluoric, 30%, bbls., wks....lb.	.06	Persulfate, sases.....lb.	.21	Carbon, bisulfide, drums, c/l.....lb.	.05
60%, lead cbys.....lb.	.14	Phosphate, dibasic, tech., bbls....lb.	.07½	Black, standard, bags, 30,000 lbs., divd. N. Y.....lb.	.0375
Hydrofluosilicic, 35%, bbls., wks. lb.	.09	Sulfate, bulk, c/l, f. o. b. ports or ovens.....ton	27.50	Dioxide, liq., cyl.....lb.	.06
Hypophosphorus, U. S. P., 30%, 5-gal. demis.....lb.	.75	Sulfide, liq. 40-45%, basis 100%, tanks, divd.....lb.	.07½	Tetrachloride, drums, c/l, frt. allowed.....gal.	.66½
Lactic, dark, 22%, bbls.....100 lbs.	2.50	Amyl acetate, from pentane, tanks, freight allowed.....lb.	.09½	Casein, dom., 20-30 mesh, bags, c/l. lb.	.18
Light, 22%, bbls., wks....100 lbs.	3.50	Chloride, normal, drums, wks....lb.	.56	Cerium oxalate, bbls., wks.....lb.	.35
Maleic, powd., drums.....lb.	.30	Chlorides, mixed, tanks, wks....lb.	.0465	Charcoal, willow, powd., bbls.....lb.	.06
Mixed, tanks, wks.....N unit. lb.	.05	Mercaptan, drums, l. c. l., wks....lb.	1.10	China clay, bulk, c/l, wks.....ton	7.60
S unit. lb.	.0085	Oleate, drums, l. c. l. wks.....lb.	.25	Chloral hydrate, drums.....lb.	.90
Naphthenic, S. V. 160, drums.....lb.	.11	Stearate drums, l. c. l. wks.....lb.	.26	Chlorine, liq., c/l, cyl, divd....lb.	.05½
Nitric, c. p., cbys.....lb.	.13	Amylene, tanks, wks.....lb.	.09	Tanks, wks., frt. equal.....100 lbs.	1.75
36°, cbys., c/l, wks.....100 lbs.	5.00	Anilin oil, drums.....lb.	.15	Chlorobenzene, mono-, drums.....lb.	.06
Oxalic, bbls., wks.....lb.	.10¾	Antraquinone, subl., bbls.....lb.	.65	Chloroform, tech., drums.....lb.	.20
Phosphoric, U. S. P., 50%.....lb.	.12	Antimony, chloride, soln., cbys....lb.	.17	Chromium acetate, 8½% soln., bbls. lb.	.05½
Picramic, kegs.....lb.	.65	Metal, N. Y.....lb.	.14*	Coal tar, crude, bbls., c/l, wks....bbl.	7.50
Picric, bbls.....lb.	.35	Oxide, bags, c/l.....lb.	No prices	Cobalt oxide, black, kegs.....lb.	1.84
Pyrogallic, tech., bbls.....lb.	1.05*	Salts, 65%, kegs.....lb.	.38*	Copper carbonate, 52-54%, bbls....lb.	1.690*
Salicylic, tech., bbls.....lb.	.33	Argols, test 75-80%, basis 100% ....100 kilos	No prices	Chloride, bbls.....lb.	.18*
Stearic, d. p., bags, divd.....lb.	.12½	Arsenic, metal, kegs.....lb.	No prices	Cyanide, tech., bbls.....lb.	.34*
Sulfanilic, tech., 250-lb. bbls.....lb.	.17	Red, kegs, cases.....lb.	.19	Metal, elec.....lb.	.12½
Sulfuric, 66°, cbys., c/l, E. wks. ....100 lbs.	1.50	White, c/l, kegs.....lb.	.03	Oxide, black, bbls., tons, wks....lb.	.18¾*
66°, tanks, E. wks.....ton	16.50	Barium carbonate, natural, 90% bags, c/l, wks.....ton	45.00	Sulfate, bbls., c/l, wks.....100 lbs.	4.75
60°, tanks, E. wks.....ton	13.00	Chloride, tech., cryst., bgs., c/l. ton	77.00	Copperas, cryst., bulk, c/l.....ton	14.00
Oleum, 20%, tanks, E. wks....ton	18.50	Dioxide, drums, wks.....lb.	.11	Cream of tartar, bbls.....lb.	.25½
Tannic, tech., bbls.....lb.	.40*	Hydroxide, bbls., works.....lb.	.06½	Cresol, U. S. P., drums, c/l, wks...lb.	.09½
Tartaric, U. S. P., cryst., bbls....lb.	.31½	Nitrate, casks.....lb.	.10½*	Crotonaldehyde, 97%, c/l, wks....lb.	.11
Tungstic, tech., kegs.....lb.	No prices	Barytes, floated, 350-lb. bbls., wks. ton	23.65	Cyanamide, 22% N, pulv., divd., contracts.....Nitrogen unit	1.27½
Alcohol, ethyl, 190 proof, from molasses, drums, c/l.....gal.	4.55	Benzaldehyde, tech., drums.....lb.	.55	Diamylamine, drums, c/l, wks....lb.	.47
Amyl, from pentane, tanks.....lb.	.101	Benzidine base, bbls.....lb.	.70	Diamylene, tanks, wks.....lb.	.08½
Butyl, normal, tanks, frt. allowed. lb.	.08	Benzol, tanks, frt. allowed E. of Omaha.....gal.	.16	Diamyl ether, tanks, wks.....lb.	.07½
Cinnamic, bottles.....lb.	2.00	Benzoyl chloride, drums.....lb.	.23	Diamyl oxalate, drums, l. c. l., wks...lb.	.30
Denatured, C. D. 14, drums, c/l, wks., E.....gal.	.31½	Benzyl acetate, F. F. C., drums....lb.	.44	Diamyl phthalate, tanks.....lb.	.20
Diacetone, tech., drums, c/l.....lb.	.08½	Chloride, tech., drums.....lb.	.19	Diamyl sulfide, drums, wks.....lb.	1.10
Furfuryl, tech., drums, c/l, works. lb.	.20	Beta-naphthol, tech., bbls.....lb.	.23	Diatomaceous earth, dom., bags, c/l, Pacific Cst.....ton	22.00
Isoamyl, primary, drums, divd....lb.	.27	Beta-naphthylamine, tech., kegs...lb.	.51	Dibutylamine, drums, l. c. l., wks...lb.	.51
		Bismuth, metal, ton lots.....lb.	1.25		

(Continued on page 44)




# continuity

1802



what  
it means  
to you



**R. & H. CHEMICALS**  
for All Industries

★

- NON-FLAMMABLE SOLVENTS
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- PLATING CHEMICALS
- PEROXIDES
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- SODIUM, 99.9%
- FORMALDEHYDE
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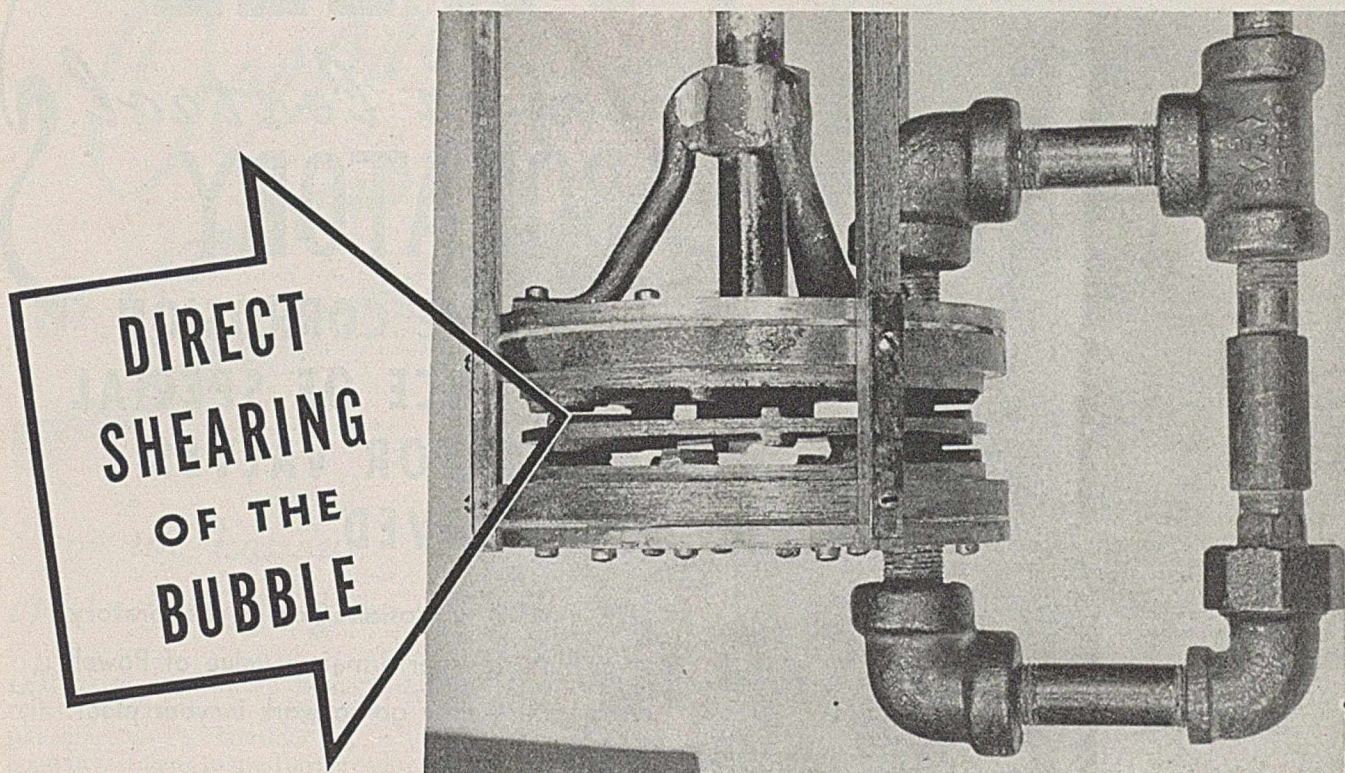
## MARKET REPORT (continued from page 42)

Dibutyl phthalate, drums, wks., frt. allowed.....lb.	.19	Mannitol, 99%, pure, cases, works.....lb.	.42	Resorcinol, tech., kegs.....lb.	.75
Tartrate, drums.....lb.	.50	Menthol, syn., tech., cs.....lb.	2.50	Rochelle salt, powd., bbls.....lb.	.19½
Dichlorethyl ether, drums, c/l, wks.....lb.	.15	Mercury bichloride, cryst., drums, 50 lbs. or more.....lb.	2.14	Saccharin, drums.....lb.	1.45
Diethanolamine, drums, c/l, wks.....lb.	.24	Mercury, flasks, 76 lbs.....flask	150.00	Salt cake, bulk, wks.....ton	15.00*
Diethylaniline, drums.....lb.	.40	Meta-phenylenediamine, kegs.....lb.	.65	Saltpeper, gran., bbls.....100 lbs.	6.50
Diethylene glycol, drums, c/l, wks.....lb.	.16	Meta-tolylenediamine, bbls.....lb.	.65	Silica, 99%, 325 mesh, bags, c/l, wks.....ton	22.00
Monobutyl ether, drums, wks.....lb.	.23	Methanol, pure, synthetic, drums, wks. frt. allowed, c/l.....gal.	.38	Silver nitrate, vials.....oz.	.27
Monoethyl ether, drums, c/l, wks.....lb.	.15	Tanks, wks., frt. allowed.....gal.	.33	Soda, ash, 58%, light, paper bags, contract, wks.....100 lbs.	1.05
Diethyl carbinol, drums, wks.....lb.	.60	Methyl acetone, nat., tanks.....gal.	.35	Caustic, 76%, solid, drums, contract, wks.....100 lbs.	2.30
Phthalate, drums, c/l.....lb.	.19	Chloride, cylinders.....lb.	.32	Sodium acetate, flake, bbls.....lb.	.04
Sulfate, tech., drums, wks.....lb.	.13	Formate, l. c. l., drums.....lb.	.35	Alginate, drums.....lb.	.71
Diglycol oleate, light, bbls.....lb.	.13	Hexyl ketone, drums, tech., wks.....lb.	.60	Antimoniate, bbls.....lb.	.15
Dimethylaniline, drums.....lb.	.23	Salicylate, drums.....lb.	.35	Benzoate, U. S. P., bbls.....lb.	.46
Dimethyl ethyl carbinol, drums, wks.....lb.	.60	Monoamylamine, drums, c/l, wks.....lb.	.52	Bicarbonate, powd., bbls., c/l, wks.....100 lbs.	1.85
Dimethyl phthalate, drums, c/l, divd.....lb.	.18½	Monobutylamine, drums, l. c. l., wks.....lb.	.51	Bichromate, c/l, wks.....lb.	.06½
Dinitrobenzene, tech., drums.....lb.	.18	Monoethanolamine, drums, wks.....lb.	.24	Bisulfite, bbls.....100 lbs.	3.30
Dinitrochlorobenzene, bbls.....lb.	.14	Naphthalene, crude, dom., 74 deg., bags, c/l, works.....100 lbs.	2.25	Bromide, U. S. P., bbls.....lb.	.31
Dinitronaphthalene, bbls.....lb.	.35	Nickel salt, single, bbls.....lb.	.13	Chlorate, cryst., bags.....lb.	.06½
Dinitrophenol, bbls.....lb.	.22	Niter cake, bulk.....ton	16.00	Chloride, bags.....ton	13.20
Diphenyl, bbls., c/l, wks.....lb.	.15	Nitrobenzene, drums.....lb.	.08	Cyanide, 96-98%, dom., drums.....lb.	.14
Diphenylamine, bbls.....lb.	.31*	Nitrocellulose, alcohol-sol., bbls., wks.....lb.	.28	Fluoride, white, 90%, bbls., c/l, f. o. b. Phila.....lb.	.07½
Diphenylguanidine, bbls.....lb.	.35	Nitrogen solution.....unit	1.2158	Metallic, untrimmed bricks, drums, f. o. b. Niagara Falls.....lb.	.15½
Epsom salt, tech., bags.....100 lbs.	1.80	Octyl acetate, tanks, wks.....lb.	.15	Metasilicate, gran., bbls.....100 lbs.	2.20
Ether, conc., drums.....lb.	.09	Oil, castor, No. 3, tanks.....lb.	.10½	Naphthionate, bbls.....lb.	.50
Nitrous, bots., 100 lbs.....lb.	.68	China wood, dms.....lb.	.25	Nitrate, crude, bulk.....ton	27.00
Ethyl acetate, 85-90%, tanks, frt. allowed.....lb.	.051	Cocoonut, crude, tanks, Pac. Cst. lb.	.03½	Nitrite, bbls.....lb.	.06½
Acetoacetate, drums, c/l, wks.....lb.	.27½	Cod, N. F., bbls.....gal.	.72*	Perborate, bbls.....lb.	.14½
Bromide, drums.....lb.	.50	Corn, crude, tanks, mills.....lb.	.05½	Phosphate, disodium, cryst., bags, c/l, wks.....100 lbs.	2.10
Chloride, drums.....lb.	.18	Cottonseed, refined, bbls.....lb.	.09½	Phosphate, trisodium, bags, c/l, wks.....100 lbs.	2.25
Formate, drums.....lb.	.23	Linseed, raw, tanks.....lb.	.0910	Picramate, kegs.....lb.	.65
Methyl ketone, drums.....lb.	.06	Menhaden, crude, tanks, f. o. b. Baltimore.....gal.	.35	Prussiate, yellow, bbls.....lb.	.10½
Ethylene dichloride, drums, wks., frt. allowed.....lb.	.0545	Neat's-foot, pure, bbls.....lb.	.15½	Silicate, drums, c/l, 40°.....100 lbs.	.80
Glycol, drums, c/l.....lb.	.16	Oiticica, bbls.....lb.	.20	Silicofluoride, bbls.....lb.	.04½
Monobutyl ether, drums, wks.....lb.	.18	Oleo, No. 1, bbls.....lb.	.09½	Stannate, drums.....lb.	No prices
Monoethyl ether, drums, wks.....lb.	.15	Olive oil, denat., bbls.....gal.	1.05	Sulfate, anhyd., bags.....100 lbs.	1.45
Monoethyl ether acetate, drums, wks.....lb.	.13	Foots, bbls.....lb.	.09	Sulfide, cryst., bbls.....lb.	.02½
Monomethyl ether, drums, wks.....lb.	.17	Palm, Niger, bbls.....lb.	.05	Solid, 60%.....lb.	.03
Feldspar, 20 mesh, bulk, wks.....ton	9.75	Sumatra, bulk.....lb.	No prices	Sulfoyanide, bbls.....lb.	.28
Film scrap, colors, dk. cs., 1000 lbs., E, wks.....lb.	.10½	Peanut, crude, tanks.....lb.	.06½	Thiosulfate, reg. cryst., bgs 100 lbs.	2.25
Fluorspar, 98%, bags, f. o. b. mines.....ton	31.60	Perrilla, drums.....lb.	.14	Tungstate, tech., kegs.....lb.	No prices
Formaldehyde, bbls., c/l.....lb.	.05½	Rapeseed, denat., bbls.....gal.	1.00	Strontium carbonate, N. F., bbls.....lb.	.30
Fuller's earth, bags, c/l, mines.....ton	10.00	Red, bbls.....lb.	.09	Nitrate, bbls.....lb.	.07½
Furfural, tech., drums, contract, works.....lb.	.10	Soy bean, crude, tanks.....lb.	.06	Sulfur, bulk, mines.....ton	16.00
Glauber's salt, bbls., c/l.....100 lbs.	.95	Sperm, 38°, bbls.....lb.	.1030	Chloride, drums.....lb.	.04
Glycerine, c. p., dma., c/l.....lb.	.12½	Whale, bbls., natural, refined.....lb.	.0910	Dioxide, commercial, cyl., wks.....lb.	.07
Glycol phthalate, drums.....lb.	.38	Ortho-dichlorobenzene, drums.....lb.	.06	Tetrachloroethane, 50-gal. drums.....lb.	.08
Stearate, drums.....lb.	.24	Ortho-nitrochlorobenzene, kegs.....lb.	.15	Thiocarbamid, bbls.....lb.	.24
Hexamethylenetetramine, tech., drums.....lb.	.32	Ortho-nitrotoluene, drums.....lb.	.09	Tin, Straits.....lb.	.51*
Hydrogen peroxide, 100 vol., cbys., c/l.....lb.	.20	Ortho-toluidine, bbls.....lb.	.19	Crystals, bbls.....lb.	No prices
Hydroquinone, kegs.....lb.	.90	Para dichlorobenzene, drums, c/l.....lb.	.11	Oxide, bbls.....lb.	No prices
Indigo, synth., liq., bbls.....lb.	.16½	Para-formaldehyde, drums.....lb.	.34	Tetrachloride, anhydrous, drums, bbls.....lb.	.25
Iodine, resubl., jars.....lb.	2.00	Para-paraldehyde, tech., drums.....lb.	.10	Titanium dioxide, bags.....lb.	.13
Iodoform, drums, 100 lbs.....lb.	4.10	Para-nitraniline, drums.....lb.	.47	Toluene, tanks.....gal.	.22
Iron acetate, N. F. IV, cbys.....lb.	.15	Para-nitrochlorobenzene, drums.....lb.	.15	Triamylamine, drums, c/l, wks.....lb.	.77
Iron chloride, tech., cryst., bbls., works, frt. allowed.....lb.	.05	Para-nitrophenol, bbls.....lb.	.35	Triamyl borate, drums, l. c. l., wks.....lb.	.27
Isobutyl carbinol (128-132° C.), tanks.....lb.	.32	Para-nitrotoluene, bbls.....lb.	.30	Tributylamine, drums, l. c. l., wks.....lb.	.68
Isopropylacetate, tanks.....lb.	.06	Para-phenylenediamine, bbls.....lb.	1.25	Trichloroethylene, drums, wks., frt. allowed.....lb.	.08
Lead acetate, white, broken.....lb.	.11	Para-toluidine, bbls.....lb.	.48	Tricresyl phosphate, tech. 2, drums.....lb.	.22
Arsenate, bags.....lb.	.10	Paris Green, 250-lb. kegs.....lb.	.23	Triethanolamine, drums, c/l, wks.....lb.	.19
Metal, N. Y.....100 lbs.	5.50	Phenol, drums, c/l, wks.....lb.	.13	Triphenyl phosphate, drums.....lb.	.38
Oxide, litharge, bbls., 20-ton lots.....lb.	.0710	Phenolphthalein, yellow, drums, ton lots.....lb.	.80	Tungsten, tech., powder.....lb.	No prices
Peroxide, cans, wks.....lb.	.46	Phenylethyl alcohol, bottles.....lb.	2.50	Urea, dom., 46 + % N., bags, f. o. b. wks. or seaboard.....ton	95.00
Red, bbls., 20-ton lots.....lb.	.0810	Phloroglucinol, tech., tins, wks.....lb.	15.00	Vanillin, 25-lb. tins.....lb.	2.50
Sulfate, bbls.....lb.	.0625	c. p., tins, wks.....lb.	20.00	Whiting, comm. dry-grd., bags, c/l, wks.....ton	12.00
White, basic carb., bbls.....lb.	.07	Phosphorus, red, cases.....lb.	.40	Xylene, 10°, tanks.....gal.	.29
Lime, live, chemical, bulk, wks.....ton	7.00	Oxychloride, 175-lb. cylinders.....lb.	.15	Xylidine, drums.....lb.	.35
Lime-sulfur, dry, bags, c/l.....lb.	.07½	Trichloride, cyl.....lb.	.15	Zinc ammonium chloride, bbls.....lb.	.0515
Lithopone, ordinary, bbls.....lb.	.04	Phthalic anhydride, bbls., c/l.....lb.	.14½	Chloride, granulated, drums.....lb.	.05
Magnesite, calcined, 500-lb. bbls., wks.....ton	58.00	Platinum, metal, solid.....oz.	40.00	Dust, bbls., c/l.....lb.	.08½
Magnesium carbonate, tech., bags, c/l.....lb.	.06½	Potash, caustic, solid, drums.....lb.	.06½	Metal, slabs, at N. Y.....lb.	.0690
Chloride, drums.....ton	32.00	Potassium acetate, tech., bbls.....lb.	.26	Oxide, Amer., bags.....lb.	.0625
Fluosilicate, cryst., bbls.....lb.	.11	Bicarbonate, gran., bbls.....lb.	.15	Stearate, bbls.....lb.	.21½
Oxide, light, bbls.....lb.	.26	Bichromate, casks, c/l, wks.....lb.	.08½	Sulfate, cryst., bgs., c/l, wks.....100 lbs.	2.75
Manganese chloride, bbls.....lb.	.08½*	Bromide, U. S. P., gran., bbls.....lb.	.31		
Dioxide, 85-90%, bbls., c/l, wks. ton	61.50	Carbonate, 80-85%, calc., casks.....lb.	.06½		
Sulfate, anhyd., bbls., works.....lb.	.08	Chlorate, cryst., kegs.....lb.	.09½*		
		Chloride, tech., cryst., bgs.....lb.	.04*		
		Cyanide, drums.....lb.	No prices		
		Meta-bisulfite, bbls.....lb.	.18*		
		Muriate, fert., bulk.....K <sub>2</sub> O unit	.53½		
		Permanganate, tech., drums.....lb.	.18½		
		Prussiate, red, casks.....lb.	.38		
		Yellow, casks.....lb.	.15		
		Pyridine, denat., drums.....gal.	1.63		
		Pyrocatechin, c. p., drums.....lb.	2.15		
		Quinine, 100-oz. cans.....lb.	.84		

\* Nominal.



# THE SECRET OF BETTER GAS-LIQUID MIXING



**DIRECT  
SHEARING  
OF THE  
BUBBLE**

Heart of the Hendrick-Republic Injection Mixer\* is the injection unit illustrated above. The turbine unit is overhung and underhung by hollow stator ring elements which are perforated on their rotor-faced surfaces. Through these perforations the gas or other treating agent is fed from the stator hollows.

As the liquid to be treated passes between the stator and rotor it exerts a spatula action on the gas discharged through the bubble holes. The shearing of the bubbles as they pass between the rotor and stator ribs results in more complete dispersion and a material reduction in mixing time.

Hendrick-Republic Injection Type Mixer is adapt-

\* Patents Pending.

able to either batch or continuous mixing. Tests and actual operation have shown it to be particularly suitable for:

- Oxidations and Hydrogenations
- Halogenations
- Washing or Scrubbing Problems
- Blending of materials of widely differing sets, viscosities, specific gravities, etc.
- Emulsification problems
- Sulphonations and Nitrations

Write for complete data on Hendrick-Republic Mixers. Or, arrange to bring your materials to the Hendrick Laboratory and conduct your own tests.

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*Manufacturers of General Process Equipment*

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# POWELL

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ALLOYS FOR VALVES  
ARE PROVED

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Specially trained chemical engineers check the behavior of pure metals and alloys in contact with acids, alkalis, chemicals, and other media to prove the commercial utility of an alloy . . . to prove the suitability of the alloy for your individual requirements.

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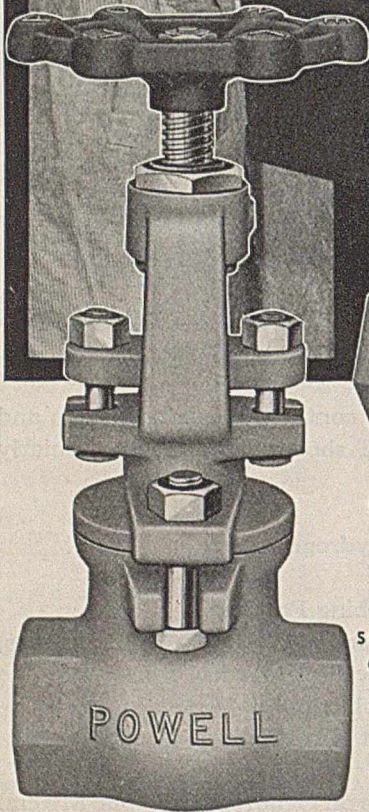
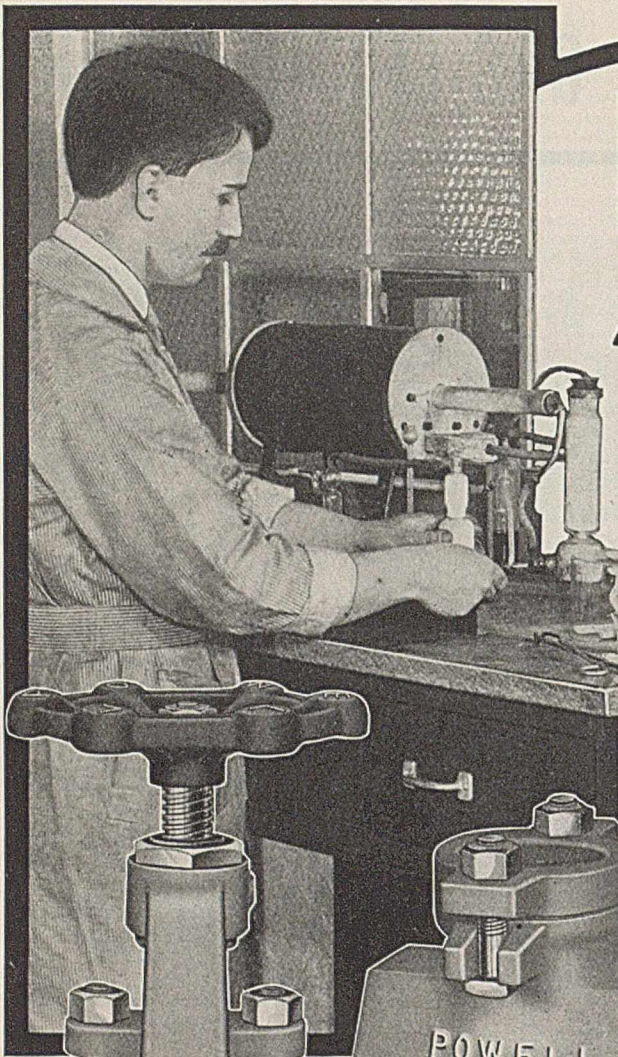


FIG. 1916  
SCREWED END HORIZONTAL  
CHECK VALVE

FIG. 1910  
SCREWED END  
GATE VALVE

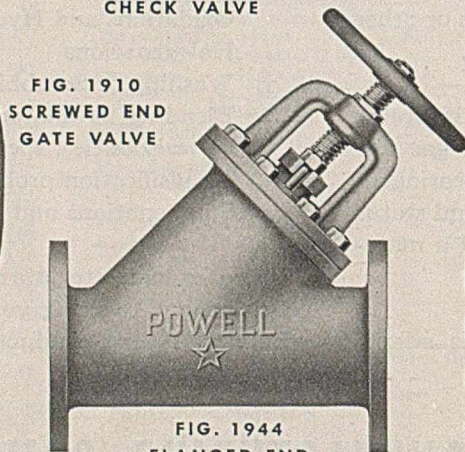


FIG. 1944  
FLANGED END  
Y VALVE



# POWELL VALVES

THE WM. POWELL CO. CINCINNATI, OHIO

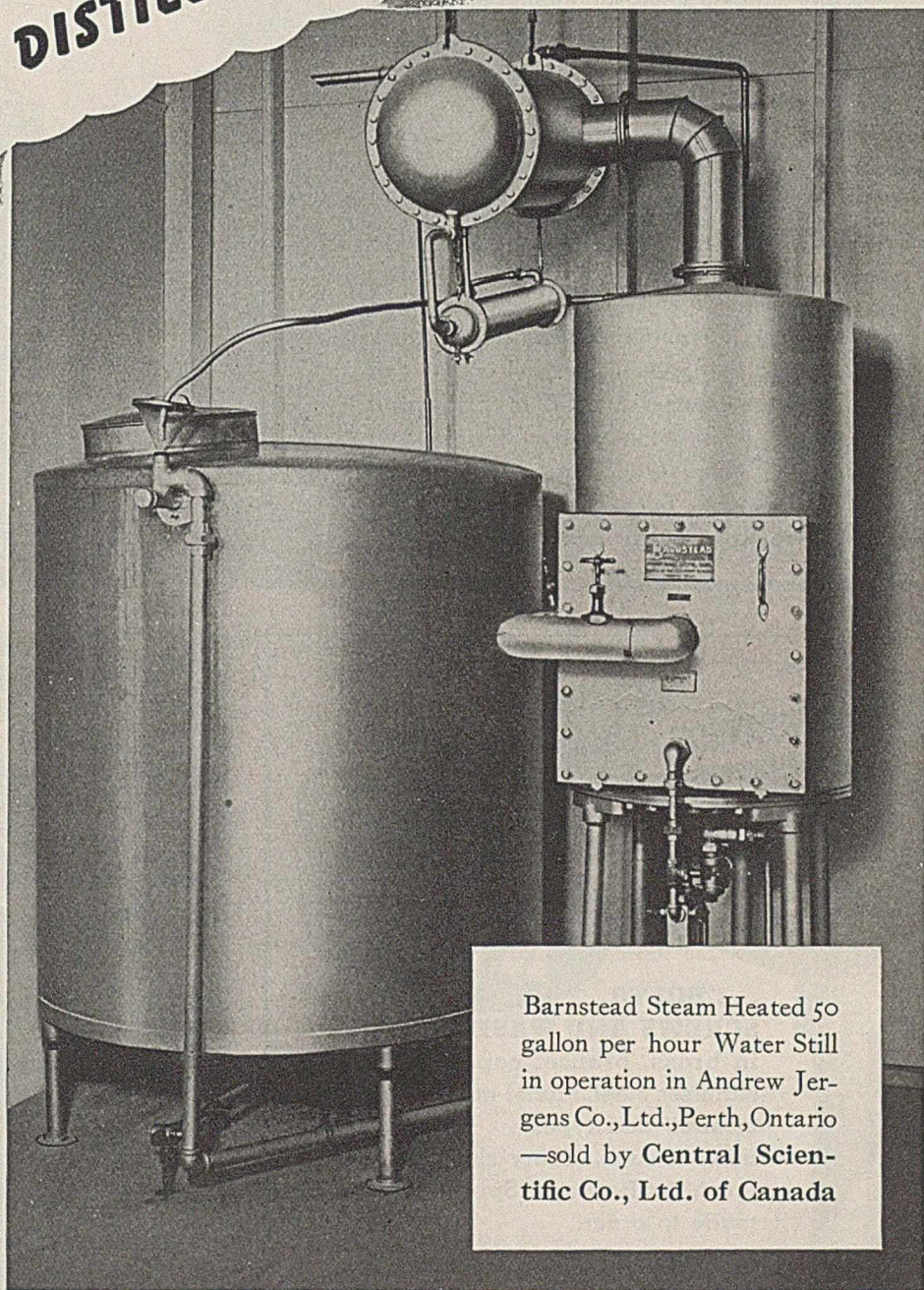
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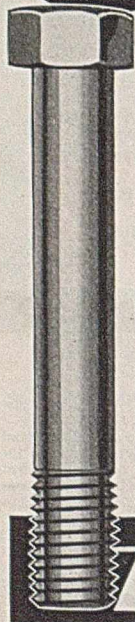
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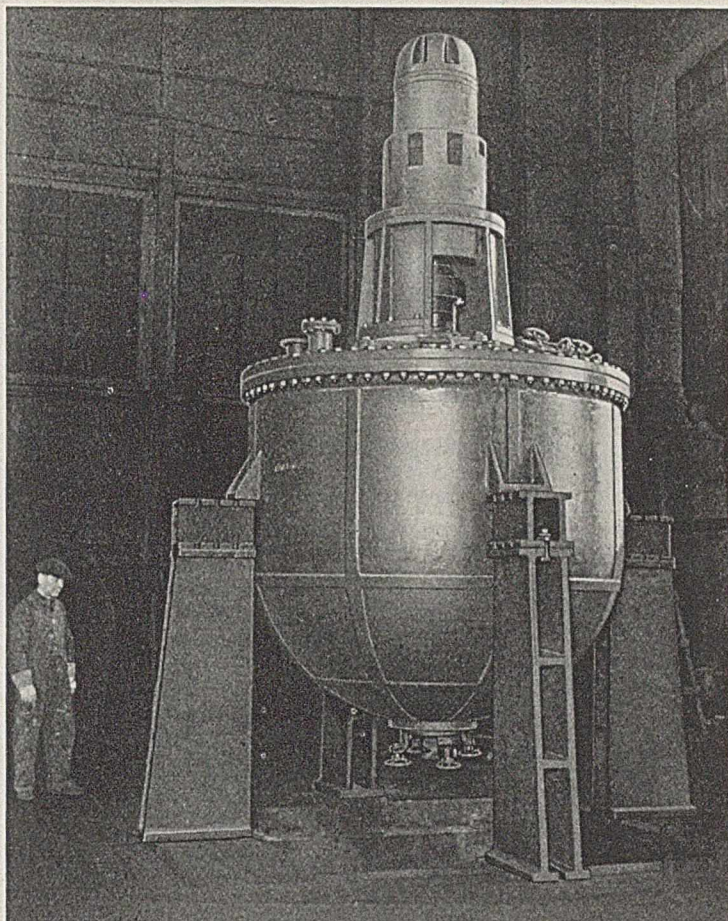
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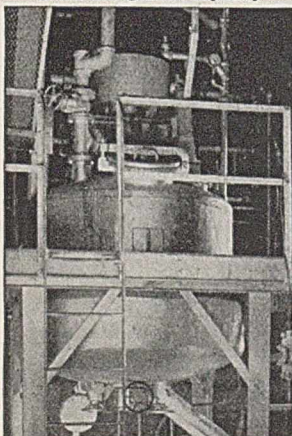
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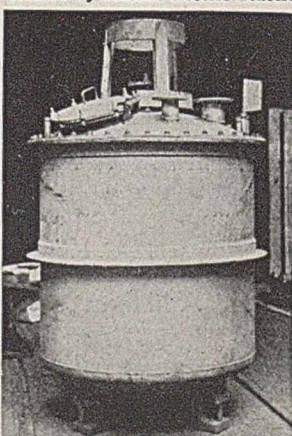
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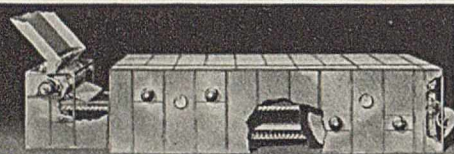
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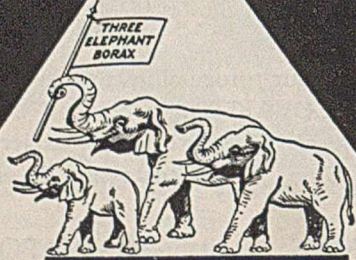
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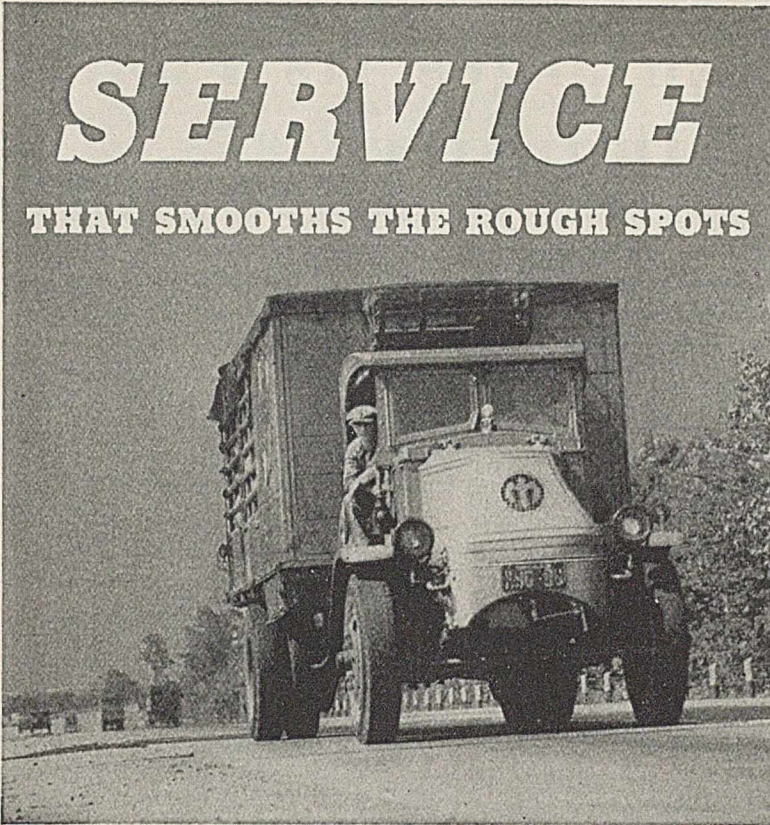
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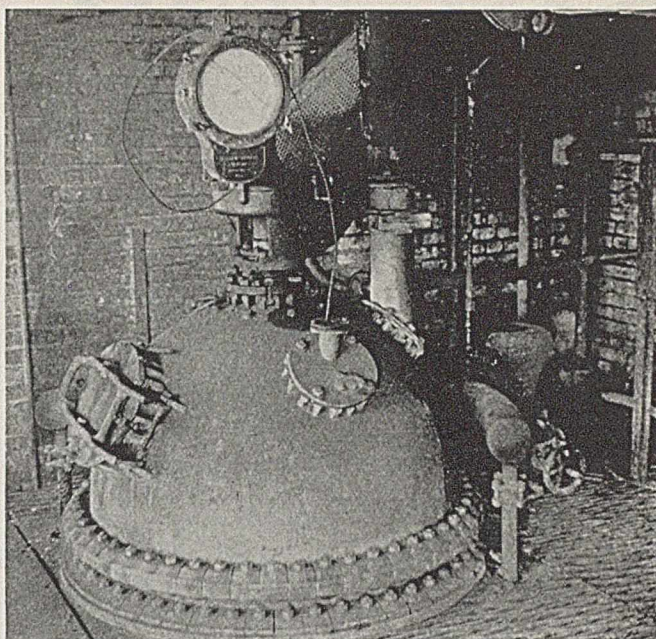
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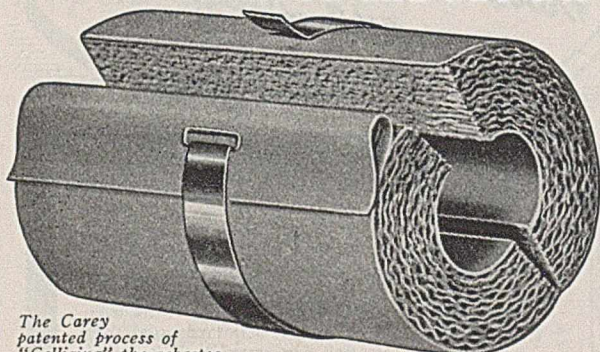


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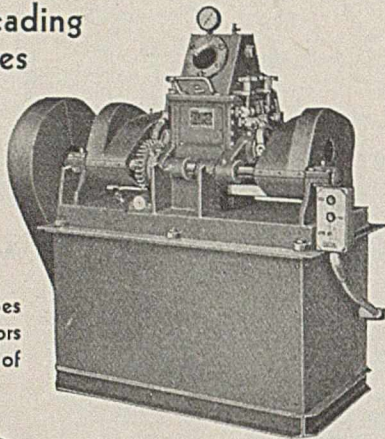
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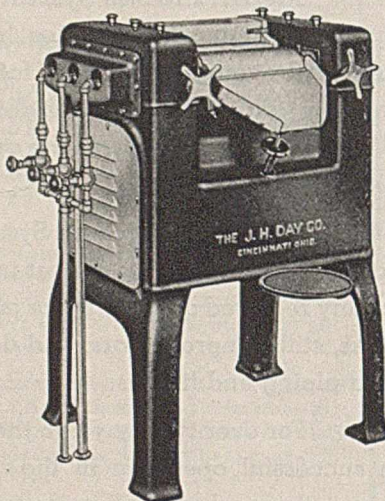


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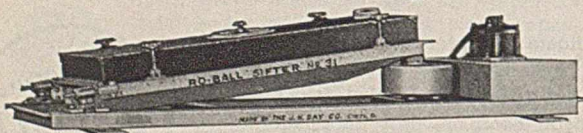
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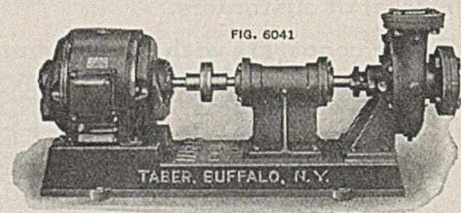


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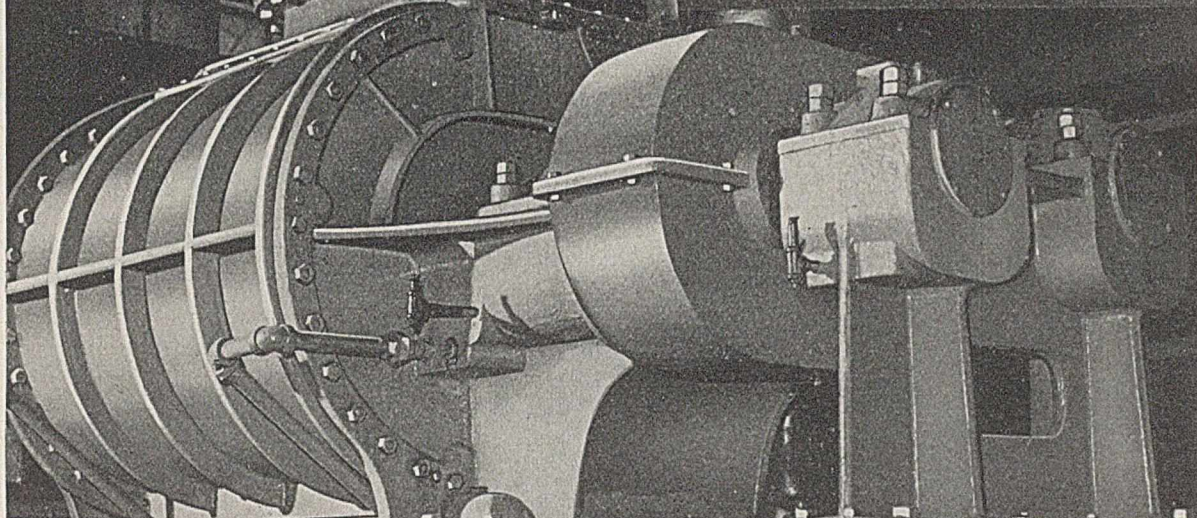
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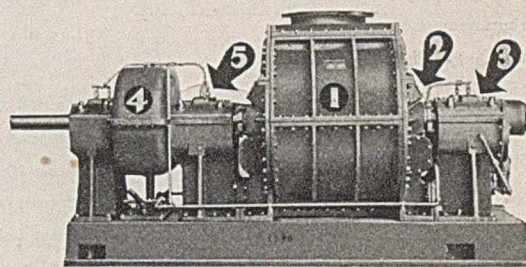
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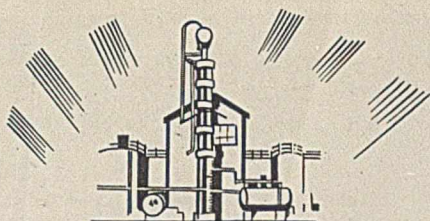
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