The best method for your purpose is the Sylvester process: into each gallon of hot water required to cover the surface shave ½ pound of castile soap; let it dissolve, but do not make suds, and apply to the dry concrete surface boiling hot, using a wide soft brush such as a whitewash brush. After the soap solution has dried, apply lukewarm a solution of ½ pound powdered alum to each four gallons of water. Two repetitions of this process should close all pores and render the concrete waterproof; if not, try a further coat or two. There is no reason why the above preparation should be affected by soda, but if it is unsuccessful you might try a coat of water glass or write to the Concrete Association of America, 225 Fifth Avenue, which has conducted a number of valuable experiments in connection with varied uses of cement and is glad to give information.

NEW BOOKS, ETC.

A Portfolio of Portraits of Eminent Mathematicians. Edited by David Eugene Smith. Chicago: The Open Court Publishing Company. Portfolio containing 12 plates with descriptive text on tissues. Price, $3.

The portfolio before us contains some admirable selections and reproductions of portraits of many mathematicians, such as Descartes, Pythagoras, Archimedes, Fermat, Leonardo of Pisa, Euclid, Cardano, Leibnitz, Napier, Viète, Newton, Thales, and the collection would make excellent illustrative material for the classification of mathematical industries. The portrait of Descartes is particularly fine.

How to Identify the Stars. By Willis M. Wilhelm, Ph.D. New York: The Macmillan Company, 1909. 8vo.; 38 pp.; plates. Price, 75 cents net.

The ability to recognize the important brilliant stars and to locate the more conspicuous constellations is both an interesting and a useful acquirement. The number of people who have a real interest in popular astronomy and a fair acquaintance with the stars and constellations is strikingly increasing, and they will find a real pleasure in this information. The object of this little book is to enable the latter persons to identify the various constellations and stars. The method here followed and the material presented is essentially the same as that used in the course of descriptive astronomy in Williams College.

Light and Sound. A Textbook for Colleges and Technical Schools. By William S. Franklin and Barry Macnutt. New York: The Macmillan Company, 1909. 8vo.; 344 pp. Price, $1.60.

There always seems to be a field for a good book on the very important subjects of light and sound. The literature is already vast on these subjects, but the authors have succeeded in presenting some phases in an entirely new light. There is an entire absence of the time-honored illustrations which have been copied from book to book. The diagrams and illustrations are very numerous and are well executed. The book will prove of value to all physicists.

The Rise and Progress of the British Explosives Industry. Published under the auspices of the Seventh International Congress of Applied Chemistry by its Explosives Section. London: Whittaker & Co. New York: The Macmillan Company, 1909. 4to.; pp. 418. Price, $5.25 net.

This very enlightening book gives an exceedingly interesting history of British explosives, reproducing many curious engravings. This is followed by chapters on the concussion caps, safety fuses, military fireworks, and pleasure fireworks. Then comes an excellent bibliography and a chronology from 1242 to 1700. The existing government and private establishments are then described. The work is highly technical, but will prove of great interest to those whom it concerns.

Through the Yukon of Alaska. By T. A. Rickard. San Francisco: Mining and Scientific Press, 1909. 8vo.; 392 pages. Price, $2.50.

This book records observations made in the course of a journey in the Yukon Territory in the District of Alaska during the summer of 1908. The sections devoted to the development of mining methods are particularly valuable, and the book should prove of interest to everyone who has ever been to Alaska and the Yukon Territory or is thinking of doing so. We are particularly taken with the 175 illustrations, which are admirably executed. The book is well printed and bound.

Exporters' Encyclopedia for 1909. New York: Exporters' Encyclopedia Company, 1909. 12mo.; pp. 655. Price, $5.

The present volume contains full and authentic information relative to shipments for every country in the world. The Exporters' Encyclopedia is now in its fifth year, and is a recognized standard authority among export shippers, and has the strongest indorsement of all the transportation lines and export houses, manufacturers, etc., engaged in export trade. It gives exactly the information which exporters require to enable them to ship their goods with the minimum of expense and trouble. It is a valuable compendium for anyone who is at all interested in export trade.

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INDEX OF INVENTIONS

For which Letters Patent of the United States were Issued for the Week Ending July 20, 1909,

AND EACH BEARING THAT DATE

[See note at end of list about copies of these patents.]

Acid, making nitric, F. L. Schmidt 928,545
Acid, manufacture, concentration, and simultaneous purification of sulfuric, G. C. de Briailles 928,844
Adapter, H. S. Salt 928,474
Advertising automaton, D. F. Brown 928,628
Advertising shade for incandescent lamps, J. de Yongh 928,572
Agricultural implement, W. L. Paul 928,690
Air, centrifugal apparatus for separating solid matter from, A. Lebrasseur 928,673
Air compressor, T. O. Perry 928,326
Air moistener and deflector, hot, W. M. Roeder 928,703
Air mover, A. Mathis 928,775
Airship, S. Lake 928,524
Airship, aeroplane, F. A. Newell 928,687
Alfalfa drier, R. S. Rowland 928,541
Alkali chlorids, electrolysis of, J. Billitzer 928,734
Anchor, stockless, W. S. Bickley 928,895
Animal trap, M. M. Franks 928,649
Animal trap, G. J. Miller 928,779
Animal trough, F. L. Stewart 928,560
Apparel apparatus, W. D. Forbes 928,437
Armature coils, machine for applying tape to, J. S. Downs 928,592
Armor plates, treating, S. S. Wales 928,412
Automatic lubricator, F. L. Allen 928,417
Automobile fifth wheel, E. A. Oliver 928,790
Automobile motor, M. & W. Eastman, reissue 12,993
Automobiles, friction drive mechanism for, A. B. Cole 928,739
Awning guide rod, R. Simms 928,806
Axle coupling, car, R. Hackbarth 928,445
Axles, method of and means for repairing, A. F. Hunt 928,519
Baby tender, self-adjusting chronometric, Wilson & Culley 928,415
Bag. See Hand bag.
Bag frame fastener, J. S. Isidor 928,661
Ball cleaning device, golf, H. Woodward 928,832
Ball players, training device for base, W. G. Lentz 928,674
Ballistic plate, S. S. Wales 928,348
Bank, portable, B. S. Wakeman 928,483
Barbers' chairs, paper actuating device for, D. B. Brown 928,243
Barrel bodies from pulp, apparatus for making, W. H. Decker 928,247
Barrel bodies of paper pulp, apparatus for making, W. H. Decker 928,248
Barrel bodies of paper pulp, apparatus for forming bilged, W. H. Decker 928,249
Barrel press, J. Teml 928,562
Basket for holding dishes and plates, A. Insinger 928,762
Bearing, roller, A. Schilling 928,800
Bed, A. K. Taylor 928,821
Bed, covered, L. J. Wilson 928,298
Bedstead mounts and the like, machine for buffing, J. F. Gail 928,254
Beer dispensing apparatus, H. S. Cornish 928,588
Beets, machine for unearthing, O. N. Frankman 928,594
Bell and alarm, combined door, H. W. Dubbs 928,369
Bell fastener, sleigh, W. C. Frindell 928,376
Belt fastener, G. H. Smith 928,556
Belt fastener, R. M. Bennett 928,840
Bench clamp, J. W. Kincaid 928,460
Binder, loose leaf, L. Streit 928,342
Block signaling system, D. J. McCarthy 928,396
Blower, pressure, E. Bassler 928,624
Boat, A. E. Apel 928,579
Boiler tube cleaner, S. M. Cockburn 928,361
Book covers, making, C. L. Baldauf 928,623
Bookbinder, R. J. Nicholson 928,878
Bookbinding, D. Z. Howell 928,518
Bookcase door guide, sectional, Weis & Hehle 928,566
Bottles or other receptacles, machine for capping or closing charged, E. K. Moore 928,781
Box, W. R. Parsons 928,881
Box lids in an open position, means for supporting, Powell & Renwick 928,697
Box top, W. H. Perkins 928,793
Braids and trimmings, machine for making, J. E. Kirberg 928,461, 928,462
Brick machine, G. M. Griswold 928,913
Broom, F. Becker 928,490
Broom holder, G. E. Selsor 928,284
Brush, H. M. Schwartz 928,550
Brush bridle, adjustable, W. Reese 928,699
Brush holder, tooth, R. M. Ryan 928,542
Brush making machine, H. M. Schwartz, 928,548, 928,549
Brushes, manufacture of, J. J. Potter 928,401
Buffing mechanism, J. F. Gail 928,253
Building structure, C. C. Stutz 928,343
Buildings, construction of, Marshall & Fox 928,314
Burglar alarm, W. A. Helphenstine 928,754
Burglar alarm, S. B. Perry 928,794
Burial shirt, C. C. Holcomb 928,655
Cable terminal, F. B. Cook 928,428
Cage, breeder's, T. H. Knaak 928,463
Calculating machine, A. J. Meier 928,873
Camping device, canvas, A. G. Lukenbill 928,391
Can, J. G. Swain 928,561
Can ends, runway for, J. F. Wing 928,725
Candlestick lubricator, E. F. Faul 928,861
Candy pail, C. A. Lee 928,263
Candy pail cover, Griffin & Johnson 928,381
Canning apparatus, L. L. Lawrence 928,773
Canopy, L. F. Busenbark 928,495
Capsule filler, P. H. Brown 928,356
Car and operating mechanism, dump, Stoltzfus & Miller 928,286
Car door, combination side and grain, H. Hedstrom 928,308
Car, dump, H. Pries 928,698
Car, dumping, C. P. Astrom 928,837
Car fender, Morganstern & Shephard 928,615
Car fender, street, J. Allez 928,575
Car rerailer, R. H. Smith 928,810
Car, stock, T. J. McKay 928,269
Carbid feeding device, A. Davis 928,853
Carbureter, F. Svagell 928,710
Carbureter, A. Winton 928,828
Cards, playing, W. T. Eddins 928,511
Carpet and matting holder, adjustable, G. E. Jackson 928,607
Cash register, W. H. Muzzy 928,267
Casting machine, F. N. Cline 928,246
Cement and like materials, process of and apparatus for burning, B. E. Eldred 928,512
Cement post attachment, E. M. Slayton 928,807
Cement, process of and apparatus for burning, B. E. Eldred 928,513
Centrifugal device, F. Hampl 928,750
Centrifugal machine, G. N. Goddard 928,912
Chair strap for holding babies, M. L. Carrington 928,305
Chuck for high-speed drills, J. O. Reynolds 928,700
Churn power, W. S. Whitney 928,297
Cigar lighter, C. S. Drake 928,252
Cigar, self-igniting, J. H. Hoover 928,451
Circuit breaker, automatic, H. W. Cheney 928,901
Circuit closer, O. M. Tustison 928,824
Clasp. See Piling clasp.
Clock, chime, P. H. Klein, Jr. 928,388
Clothes frame, revoluble, J. A. Turpin 928,823
Clutch, C. P. Hollister 928,656
Clutch, friction, H. A. Krueger 928,671
Clutch, friction, A. Lint 928,871
Coal handling apparatus, G. W. Freeland 928,595
Coaster, wheel, L. R. Valentine 928,716
Cock, gas, C. W. Boyse 928,898
Cock seating washer, J. H. Glauber 928,599
Coffee roaster, N. T. Coley 928,500
Coin controlled lock, H. B. Meade 928,613
Coke oven, L. Bansart 928,302
Collar, coat, M. Koppelman 928,262
Collar stay, H. A. Aldred 928,573
Collar supporter, J. C. Doran 928,250
Collar supporter, H. A. Aldred 928,621
Comb, J. C. McLean 928,785
Comb attachment, H. H. West 928,485
Commutator for electrical machines, F. R. Kunkel 928,918
Compass, beam, H. E. P. Taylor 928,712
Concentrating apparatus, C. A. La Point 928,870
Concrete construction forms, bond of, C. M. Markham 928,392
Concrete constructions, means for reinforcing, J. T. Simpson 928,475
Concrete constructions, reinforcing bar for, J. M. Dudley 928,430
Concrete holding and carrying device, A. N. Doud 928,858
Concrete structures, constructing sunken, W. H. Fahrney 928,646
Concrete tiling, machine for making, R. Z. Snell 928,812
Conduit, W. Houghton 928,606
Conduit, underground, Way & Freeze 928,826
Conduits, cable operated carrier for, Alexander & Appel 928,300
Controller, H. Smith 928,707
Conveying apparatus, J. T. Cowley 928,365
Cooker, J. C. Prims 928,795
Cooking utensil, Hill & Zahnter 928,383
Cooking utensils, heat distributer for, A. B. Cruickshank 928,634
Cooler, V. F. Barbaro 928,420
Core, E. H. Proffitt 928,538
Coring machine, cabbage, C. B. Gedney 928,748
Corset, apparel, D. Kops 928,669
Cot and hammock, combined, H. Menten 928,317
Cotton press, B. Thoens 928,563
Coupling head, auxiliary, P. W. Hogan 928,654
Crane, P. H. Douglas 928,640
Crate, folding, C. E. Clark 928,586
Crate, folding poultry, H. D. Dennis, et al. 928,504
Crate, knockdown, J. B. Noyes 928,471
Crucible, P. W. Shimer 928,552
Crushing or pulverizing machine, C. A. Doen, et al. 928,368
Culinary device, L. Nelson 928,397
Cultivator, J. C. & H. O. Williams 928,487
Cultivator, E. W. Werden 928,723
Cultivator or plow, wheeled, T. D. Heath 928,604
Cultivator, riding, A. E. Kistler 928,769
Culvert, Mahoney & Rounds 928,265
Currents, device for steadying, P. H. Thomas 928,287
Curtain fastener, E. J. Lombard 928,677
Curtain fixture, G. H. Forsyth 928,910
Cut off, float, H. Mohr, Sr. 928,319
Cut off, rain water, E. E. Brott 928,846
Cutlery, metal handle for, W. B. Hatfield 928,515
Cutter, F. A. Meier 928,681
Cycle, P. C. Jeppesen 928,765
Cycles, detachable trailing carriage for, A. E. Abrahamson 928,416
Cyclometer for bicycles, A. Ruffin 928,473
Cylinder ring, Wehrman & Trueblood 928,294
Dating machine, B. B. Conrad 928,740
Desk, folding writing, C. Mohr 928,614
Die, W. H. Grissom 928,256
Disappearing table, G. H. Witthaus 928,726
Display holder, B. Rosenberg 928,281
Display rack, J. D. Walsh 928,292
Display rack, folding, R. E. McKay 928,533
Distant register, W. H. Muzzy 928,268
Door securer, J. U. Tabor 928,820
Door stop or securer, R. Pitt 928 279
Draft device, H. J. Klasing 928,667
Drain inlet, J. & D. D. Friedman 928,596
Draw bar carrier, C. H. Tomlinson 928,890
Drier, H. W. Shepard 928,706
Drill and socket, J. M. Goodwin 928,749
Drilling machine tapping attachment, R. Milne 928,780
Drilling, tool for holding disks for, Oakman & Axtell 928,275
Drinking fountain, poultry, H. B. Anderson 928,836
Driving mechanism, E. P. Webster 928,565
Drum, A. D. Converse 928,741
Drum, mixing, J. W. Cumisky 928,850
Dye, vat, P. Thomaschewski 928,891
Electric arc light, S. E. Donnelly 928,857
Electric heaters, controlling means for, E. H. Richardson, et al. 928,402
Electric iron, D. W. McClay 928,532
Electric machine, dynamo, F. R. Kunkel 928,771
Electric machine, dynamo, H. M. Scheibe 928,799
Electric meter, D. C. Jackson 928,521
Electric outlet box, C. J. Dorff 928,251
Electric wire conduit, H. N. Speer 928,285
Electrical currents, unidirecting, E. A. Burlingame 928,583
Electrical receptacle, weatherproof, F. J. Russell 928,282
Electrical starting device, J. L. Schureman 928,547
Electromagnetic wave signaling, R. A. Fessenden 928,371
Electromagnetically operated apparatus, R. E. Hellmund 928,516
Electroresponsive device, E. A. Terpening 928,345
Elevator, J. T. Cowley 928,364
Elevator door, sidewalk, C. S. Hoffman 928,756
Embroidery hoop, S. W. Gibbs 928,598
Engine, T. R. Thurber 928,715
Engine cylinder lubricator, J. A. Daubenspeck 928,906
Engines, drive gearing for traction, D. W. Keyes 928,458
Engines, fuel for internal combustion, G. B. Selden 928,803
Engines, leveling mechanism for traction, R. C. Gorham 928,380
Envelop, H. W. Stuart 928,407
Envelop, R. D. Townsend 928,410
Excavator shovel, tandem, C. C. Jacobs 928,258
Fabric, J. L. Patterson 928,535
Faucet, J. H. Glauber 928,378
Feeder, automatic, G. L. Poh 928,400
Fence tie forming die, B. A. Garlinghouse 928,377
Fertilizer distributer, W. J. Adams 928,835
Files, division plate for document, W. J. Vick 928,346
Filter, F. B. Anderson 928,576
Fire escape construction, W. O'Keefe 928,325
Fire extinguishing apparatus with siphon arrangement, W. Bockem 928,897
Fish line float, J. Garrard 928,439
Fish stringing device, R. Coleman 928,381
Fly wheel, G. Scaramuzza 928,544
Folding case, A. B. Sutzer, et al. 928,818
Forming machine, H. C. O'Bleness 928,616
Fruit cleaner, F. Stebler 928,558, 928,559
Furnace, C. F. Diller 928,907
Furnace oven, removable, N. E. Storms 928,816
Furniture, etc., manufacturing material for making articles of, H. B. Morris 928,266
Fuse lighter, C. C. Myrick 928,685
Gage head, J. W. Beard 928,422
Galvanizing, G. L. Patterson, et al. 928,398
Garment rack, F. Wolf 928,728
Garment supporter, G. Barfus 928,421
Gas, apparatus for generating hot compressed, H. Neumann 928,324
Gas burner valve, L. L. Carnahan 928,497
Gas engine, H. M. Yager 928,299
Gas extinguisher and lighter, J. A. Matonsek 928,776
Gas furnace, J. Bueb 928,494
Gas, generating producer, H. F. Smith 928,808
Gas heater, J. A. Eddy 928,742
Gas lighting appliance, F. F. Dier 928,307
Gas lighting appliance, Dier & Primeau 928,505
Gas producer grate and means for removing ashes therefrom, H. F. Smith 928,809
Gas suitable for illuminating and heating purposes and making said gas, liquid, L. Wolf 928,729
Gas, treament of acetylene, James & Watson 928,867
Gate, A. V. Rowe 928,798
Gear, variable speed, H. E. Williams 928,486
Gear wheel, N. D. Levin 928,676
Gearing, changeable speed, W. Scott 928,705
Gearing, speed, J. S. Barnes 928,240
Gearing, variable speed, W. A. Widmer 928,568
Gearing, variable speed, J. S. Barnes 928,894
Glass, annealing and hardening, J. J. Farling 928,860
Glass in the heat, apparatus for working, J. Kremenezky 928,670
Glass shade and screen, A. Steffin 928,340
Gradient instrument, R. Sobotka 928,557
Grain separator, E. G. Clymans 928,498
Grate, fireplace, J. H. Dwight 928,593
Grip device, intermittent, H. W. Fellows 928,434
Gun, machine, A. F. Swahn 928,344
Gun, oil, T. B. Wilkinson 928,351
Gun with breech action, F. Jaeger 928,608
Hand bag, A. Schonberg 928,801
Harvester, cotton, A. W. Johnson 928,662
Hat, man's, E. B. Hollenbeck 928,384
Hay rake and tedder, combined, L. M. Jones 928,457
Heading machine, W. D. Thomas 928,409
Heat conserving receptacle, Wilson & Friend 928,414
Heater, J. J. Kelly 928,665
Heaters, apparatus for automatically regulating, J. Naughton 928,323
Heating device for lacquering, W. W. Vincent 928,291
Hinge and brace, adjustable, T. D. Meyer 928,468
Hinge, extensible, W. F. Hunter 928,760
Hitching device, horse, R. Cardin 928,629
Hoe, W. S. Davis 928,590
Hoisting machine, J. Bowles 928,626
Hoisting machine, C. F. Dallman 928,851
Hoisting machinery, clutch for winding drums of, C. P. Turner 928,482
Holdback, C. Hastings 928,602
Hoof nippers, J. A. Ryden 928,335
Hook and eye, S. A. Cinnamon 928,585
Horse detacher, Borland & Benack 928,843
Horse rake, K. Hoshino 928,517
Horseshoe, G. F. Fassett 928,647
Hose connection, H. Strom 928,817
Hose coupling, J. P. Baird 928,237
Hosiery, looping machine for, F. & J. F. Nelson 928,787
Hot air furnace, J. M. Keller 928,259
Household utensil, E. C. Price 928,537
Hub, vehicle, J. T. Watters 928,413
Hydrant, G. W. Johnston 928,663
Hydraulic governor, A. Dickerson 928,854
Hydrocarbon burner, W. Scrimgeour, Jr. 928,337
Hydrocarbon burner, W. Scrimgeour 928,886
Incandescent mantles, producing, G. Buhlmann 928,580
Inhaler, V. E. Randall 928,884
Ink, R. W. Hochstetter 928,450
Ink, R. Hochstetter 928,915
Insulating joint, C. A. Jaynes 928,763
Insulator for third rails, L. Steinberger 928,709
Internal combustion engine, H. H. Simon 928,405
Internal combustion engine, E. Berliner 928,842
Invalid's table, M. A. Hawley 928,752
Iron, refining, P. Sejournet 928,551
Kinetoscope, continuous film, C. B. Gillespie 928,443
Knitting machine, W. W. Burson 928,244
Lamp, arc, Knapp & Schlesinger 928,464
Lamp, gas, C. W. Boyse 928,899
Lamps, Bunsen burner for incandescent gas, M. Jacobs 928,453
Lantern top, D. C. Kline 928,260
Last, W. E. Ellis 928,909
Last cord fastener, P. H. Hickman, et al. 928,605
Latch, gate, J. B. Walser 928,825
Lathe, multiple spindle automatic, E. U. Harrison 928,382
Lathes for boring elliptical openings, attachment to, J. Shaw 928,404
Lathing, manufacture of metal, W. Klocke 928,610
Lathing, manufacturing metal, W. Klocke 928,917
Lavatory, H. Podmore 928,696
Lawn sprinkler, A. Fisher 928,372
Leather skiving machines, marking or printing means for, R. P. Grant 928,514
Letter, illuminated shaded, C. H. Hulse 928,916
Level and plumb, combined, J. L. Greene 928,600
Leveling bar head, I. S. Hearn 928,603
Life preserver, Krieger & Tallman 928,465
Lighting fixture, preheating, W. N. Best, Sr. 928,241
Load retaining device, E. A. Thompson 928,288
Lock, W. A. Hurst 928,761
Locks, antifriction bearing latch bar for, J. B. Webb 928,721
Locker hook, W. N. Vance 928,717
Locomotive boiler, O. D. Orvis 928,880
Loom shuttle motion, J. A. Gendron 928,440
Looms, pattern mechanism of, O. L. Owen 928,278
Looms, reed actuating mechanism for, J. A. Gendron 928,911
Lotion, G. Pucciarelli 928,539
Low water alarm, F. D. Goodnough 928,650
Lubricator, W. L. Newbaker 928,686
Lubricator, H. A. Swanson 928,819
Macaroni and the like, machine for making, J. Rivara 928,796
Magnet, lifting, A. C. Eastwood 928,510
Magnet, polarized, E. A. Burlingame 928,582
Mail bag catching and delivering device, J. J. Cruse 928,502
Mail catching and transferring apparatus, F. Blankenberger 928,735
Main and pipe cleaner, Greenan & Redford 928,863
Mangle, C. H. Mattice 928,315
Manifolding pad, E. K. Bottle 928,625
Match box and cigar cutter, combined pocket, J. Havassy 928,447
Matter or objects in quantities, examining, J. I. Solomon 928,888
Mattress, D. E. Miller 928,778
Measuring apparatus, R. Hoyt 928,658
Measuring device, dress, N. E. Jaeger 928,454
Meat cutter, C. W. Kuhn 928,389
Meat hanging device, J. E. Mowinckel 928,530
Meat products, smoking and curing, M. Brand 928,900
Metal coating apparatus, H. M. Huxley 928,385
Metal shaping apparatus, W. W. Bissell 928,353
Meter system, electrically controlled, H. P. Clausen 928,245
Micrometer gages, spindle lock for, L. S. Starrett 928,889
Mine, buoyant mechanical submarine, T. Novero 928,789
Mold, J. F. Monnot 928,470
Mold, L. A. Brown 928,493
Mold for casting sash weights, J. C. & G. L. George 928,441
Molding device, A. M. Thompson 928,714
Molding machine, W. B. Bolles 928,354
Molding machine, T. E. McNamara 928,786
Monkey wrench, ratchet, A. C. Jenrich 928,764
Mortising machines, pneumatic attachment for, E. E. Houghton 928,758
Motor, J. R. Morrison 928,782
Multiple pendant switch, C. D. Gervin 928,597
Musical instrument, pneumatic, T. P. Brown 928,357
Musical instruments, automatic playing attachment for, P. Welin 928,295
Musical instruments, harmonic attachment for stringed, L. E. Hull 928,866
Musical instruments, pneumatic action for, P. Welin 928,296