

# OFFICIAL GAZETTE

OF THE

# UNITED STATES PATENT OFFICE

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# ALPHABETICAL LIST OF PATENTEES

TO WHOM

## PATENTS WERE ISSUED DURING THE MONTH OF FEBRUARY, 1921.

**NOTE.**—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

- A. B. C. Motors Limited. (See Bradshaw, Granville E., assignor.)
- Aastla, Julie B., Chicago, Ill., assignor to Haskellite Mfg. Corporation. Reinforced wooden beam. No. 1,368,594; Feb. 15; v. 283; p. 440.
- Abbott, Augustus, Denver, Colo. Vending-machine. No. 1,367,678; Feb. 8; v. 283; p. 215.
- Abbott, Charles C., assignor to General Electric Company, Pittsfield, Mass. Electric heating unit. No. 1,367,341; Feb. 1; v. 283; p. 91.
- Abetz, Joseph, New Britain, Conn. Adjustable shade-bracket. No. 1,368,091; Feb. 8; v. 283; p. 292.
- Abraham Gabriel, New York, N. Y. Live buckle. No. 1,368,009; Feb. 8; v. 283; p. 278.
- Abrahamson, Oscar J., Carpenter, N. D. Aeroplane. No. 1,366,895; Feb. 1; v. 283; p. 3.
- Acme Woolen Cotton Mills Company, The. (See Huttinger C. A., and Rittenhouse, assignors.)
- Adams, Arthur F. (See King, H. K., and Adams.)
- Adams-Bagnell Electric Company, The. (See Galbraith, Daniel H., assignor.)
- Adams-Bagnell Electric Company, The. (See Horton, William M., assignor.)
- Adams, Edward M., assignor to M. H. Petigor, New York, N. Y. Tumbler-rinser. No. 1,367,342; Feb. 1; v. 283; p. 92.
- Adams, Harry, U. S. Navy. Game apparatus. No. 1,368,875; Feb. 15; v. 283; p. 495.
- Adams, S. G., Stamp and Stationery Company. (See Maze, Le Roy, assignor.)
- Adamson, Alexander, Akron, Ohio. Vulcanizer. No. 1,368,679; Feb. 15; v. 283; p. 457.
- Adamson, Andrew J., St. Louis, Mo. Shoe. No. 1,368,595; Feb. 15; v. 283; p. 440.
- Adrian Carburetor Company. (See Gibford, Edward B., assignor.)
- Adolf, Frank W., and B. B. Bienhoff, Minneapolis, Minn. Motor-speed control. No. 1,367,679; Feb. 8; v. 283; p. 215.
- Agnew, Samuel E., Dawson, N. Mex. Cigarette-making machine. No. 1,367,171; Feb. 1; v. 283; p. 57.
- Aimes William R., Atchison, Kans. Advertising display apparatus. No. 1,368,533; Feb. 15; v. 283; p. 428.
- Akers, David, Carlstadt, N. J. Sediment-remover. No. 1,367,449; Feb. 1; v. 283; p. 112.
- Aktiebolaget Lindens Hjemmaskiner. (See Johansson, Klas H., assignor.)
- Aktiebolaget Ljungströms Angturbin. (See Ljungströms, Fredrik, assignor.)
- Aktiebolaget Svenska Kullagerfabriken. (See Hultgren, Axel G. E., assignor.)
- Aktiebolaget Vaporrackumulator. (See Ruths, Johannes K., assignor.)
- Alberti, Antoine G., and A. B. Baron, Paris, France. Slicing-machine. No. 1,369,600; Feb. 22; v. 283; p. 674.
- Alborn, Frans G., Milford, assignor, by mesne assignments, to The Locomobile Company, Bridgeport, Conn. Clutch. No. 1,368,596; Feb. 15; v. 283; p. 440.
- Alexander, D. J., et al. (See Parker, George C., assignor.)
- Alexander, Oliver T., Altonpark, Tenn. Recording instrument. No. 1,368,092; Feb. 8; v. 283; p. 293.
- Alexander, Rush, Baton Rouge, La. Collapsible paper box. No. 1,368,597; Feb. 15; v. 283; p. 440.
- Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. High-frequency alternator. No. 1,369,601; Feb. 22; v. 283; p. 674.
- Alexandre, Lily, San Francisco, Calif. Thread cutter and holder. No. 1,367,791; Feb. 8; v. 283; p. 237.
- Allbright-Nell Company. (See Kohlhepp, John W., assignor.)
- Alleman, John K., Amberson, Pa. Husking-truck and fodder-binder. No. 1,367,344; Feb. 1; v. 283; p. 92.
- Allen, Charles R., Oakland, Calif. Screen. No. 1,369,514; Feb. 22; v. 283; p. 657.
- Allen, Edward B., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Thread cutting and nipping mechanism for sewing-machines. No. 1,369,371; Feb. 22; v. 283; p. 229.
- Allen, Ernest J., Elmhurst, N. Y. Drill-slotter. No. 1,367,680; Feb. 8; v. 283; p. 215.
- Allen, Herbert I., assignor to Electron Chemical Company, Portland, Me. Electrolytic cell. No. 1,368,010; Feb. 8; v. 283; p. 278.
- Allen, Herbert I., assignor to Electron Chemical Company, Portland, Me. Electrolytic cell. No. 1,368,011; Feb. 8; v. 283; p. 278.
- Allen, Isaiah J., Portland, Ore. Rule. No. 1,368,876; Feb. 15; v. 283; p. 495.
- Allen, James M., et al., trustees. (See Allen, James M., assignor.)
- Allen, James M., Thermopolis, Wyo. Lifting device. No. 1,368,534; Feb. 15; v. 283; p. 429.
- Allen, James M., assignor to J. M. Allen, F. P. Smith, and F. D. Tucker, trustees for the Smith-Allen Battery Company, St. Louis, Mo. Separator for storage-battery plates. No. 1,368,093; Feb. 8; v. 283; p. 293.
- Allen, Sherman T., Pasadena, Calif. Tractor-wheel. No. 1,368,535; Feb. 15; v. 283; p. 429.
- Allen, Simeon, C., et al. (See Logan, Frank J., assignor.)
- Allen, William H., Detroit, Mich. Making phosphoric acid. No. 1,368,379; Feb. 15; v. 283; p. 398.
- Allis, Hannora E., administratrix. (See Allis, Thomas V.)
- Allis, Thomas V., deceased, Pittsburgh, Pa.; H. E. Allis administratrix. Heat-treating sheet and tin-plate bars. No. 1,367,000; Feb. 1; v. 283; p. 24.
- Allison, John, Dravosburg, Pa., assignor to Pittsburgh Steel Foundry Company. Railway-car underframe. No. 1,368,680; Feb. 15; v. 283; p. 457.
- Allison, John, Dravosburg, Pa., assignor to Pittsburgh Steel Foundry Company. Industrial car. No. 1,368,681; Feb. 15; v. 283; p. 457.
- Alm, John, and J. Hughes, Naugatuck, Conn., assignors to The Goodyear's Metallic Rubber Shoe Company. Rubber boot and manufacturing the same under differential of pressures. No. 1,368,682; Feb. 15; v. 283; p. 457.
- Aluminum Company of America. (See James, Lewis R., assignor.)
- Ambruster, Cornelius, Roslyn, Pa. Lid-supporter. No. 1,367,681; Feb. 8; v. 283; p. 215.
- American Arch Company. (See Bean, Guy M., assignor.)
- American Arch Company. (See Gee, Norman E., assignor.)
- American Arch Company. (See Himmelright, Raleigh J., assignor.)
- American Bosch Magneto Corporation. (See Kratz, F., and Honold, assignors.)
- American Bosch Magneto Corporation. (See Woerner, Edgen, assignor.)
- American Brake Shoe & Foundry Company. (See Thompson, James S., assignor.)
- American Can Company. (See Englund, Axel A., assignor.)
- American Can Company. (See Nowack, Charles H., assignor.)
- American Can Company. (See Thornburgh, Ivan D., assignor.)
- American Cyanamid Company. (See Washburn, Frank S., assignor.)
- American District Steam Company. (See Babcock, Henry J., assignor.)
- American District Steam Company. (See Barnes, Eugene L., assignor.)
- American Dressler Tunnel Kilns. (See Dressler, Philip d'H., assignor.)
- American Dressler Tunnel Kilns. (See Kupfer, Walter S., assignor.)
- American Electrical Heater Company. (See Kuhn, F., and Hand, assignor.)
- American Hard Rubber Co. (See Boyer, Edwin S., assignor.)
- American Hardware Corporation. (See Hurd, Norman B., assignor.)
- American Laundry Machinery Company, The. (See André, William E., assignor.)
- American Metal Cap Company. (See Hammer, Charles, assignor.)
- American Pretzel Company, The. (See Schumaker, Lorraine J., assignor.)
- American Radiator Company. (See Landon, Archer A., assignor.)
- American Telephone and Telegraph Company. (See Blauvelt, William G., assignor.)
- American Telephone and Telegraph Company. (See Demarest, C. S., and Shoffstall, assignors.)
- American Telephone and Telegraph Company. (See Demarest, Charles S., assignor.)

- Locomotive Superheater Company. (See True, Charles H., assignor.)
- Loeffelhardt, Charles, Los Angeles, Calif. Plastic composition and making the same. No. 1,368,949; Feb. 15; v. 283; p. 508.
- Loftus, Nicholas R., Beckley, W. Va. Electric oil and gas producer. No. 1,368,404; Feb. 15; v. 283; p. 402.
- Logan, Frank J., assignor of one-third to C. Leibinger and one-third to S. C. Allen, Rochester, N. Y. Barrel-tipper. No. 1,367,063; Feb. 1; v. 283; p. 36.
- Logan, Spencer H., Chicago, Ill. Cigarette-holder. No. 1,368,173; Feb. 8; v. 283; p. 309.
- Lokometzki, Frank M., Milwaukee, Wis. Curtain-fixture. No. 1,368,174; Feb. 8; v. 283; p. 309.
- Long Staple Cotton Gin Manufacturing Company. (See Milan, Robert H., assignor.)
- Loos, George J., Philadelphia, Pa. Cabinet. No. 1,368,515; Feb. 15; v. 283; p. 424.
- Lord Baltimore Press, The. (See Billstein, Aaron M., assignor.)
- Lott, Clyde R., Washington, D. C., assignor to The Guardian Trust and Savings Bank of Toledo, Toledo, Ohio. Glass-forming machine. No. 1,369,679; Feb. 22; v. 283; p. 690.
- Loudenslager, Earl, assignor to The Timken Roller Bearing Company, Canton, Ohio. Trolley-wheel bearing. No. 1,367,706; Feb. 8; v. 283; p. 220.
- Lough, Hector V., assignor to The Hartford Rubber Works Company, Hartford, Conn. Mold and clamp therefor. No. 1,367,404; Feb. 1; v. 283; p. 104.
- Louis, Meyer. (See May, Victor, assignor.)
- Lovested, Carl M. (See Brown, Walter S., assignor.)
- Lovie, Bernard. (See Hahn, H., and Lovie.)
- Lower, Nathan M., Jarrettown, Pa., assignor to Locomotive Stoker Company, Schenectady, N. Y. Locomotive-stoker. No. 1,368,271; Feb. 15; v. 283; p. 377.
- Lower, Nathan M., Schenectady, N. Y., assignor to Locomotive Stoker Company, Pittsburgh, Pa. Fuel-injector for locomotive-stokers. No. 1,368,272; Feb. 15; v. 283; p. 377.
- Lower, Nathan M., Schenectady, N. Y., assignor to Locomotive Stoker Company, Pittsburgh, Pa. Locomotive-stoker. No. 1,368,273; Feb. 15; v. 283; p. 377.
- Lowitz, Samuel. (See Harrington, Clyde M., assignor.)
- Lucas, Frank A., Detroit, Mich. Carbureter. No. 1,368,950; Feb. 15; v. 283; p. 508.
- Lucas, Lawrence C., Canton, Ohio. Heater. No. 1,367,064; Feb. 1; v. 283; p. 36.
- Lucas, Louis, Jamestown, N. Y. Cone-molding machine. No. 1,367,196; Feb. 1; v. 283; p. 62.
- Luce, Grafton E., Chicago, Ill. Kiln setting and burning. No. 1,369,752; Feb. 22; v. 283; p. 705.
- Lucey Manufacturing Corporation of Tennessee. (See Vreeland, Walter G., assignor.)
- Lucey Manufacturing Corporation of Tennessee. (See Zilen, Victor W., assignor.)
- Lucius, Joseph, Solon Springs, Wis. Paddle-lock. No. 1,368,341; Feb. 15; v. 283; p. 390.
- Lüdecke, Karl. (See Connstein, W., and Lüdecke.)
- Ludlum Electric Furnace Corporation. (See Trembour, Max R., assignor.)
- Lum, Walter O., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical system. No. 1,367,155; Feb. 1; v. 283; p. 54.
- Lund, Jens G. F., Christiania, Norway. Building-stone. No. 1,367,786; Feb. 8; v. 283; p. 236.
- Lundquist, Frank A., Chicago, Ill., assignor, by mesne assignments, to Western Electric Company, Incorporated. Automatic telephone-exchange. No. 1,369,288; Feb. 22; v. 283; p. 613.
- Lundquist, Frank A., assignor to C. L. Redfield, trustee, Chicago, Ill. Bank-contact. No. 1,369,680; Feb. 22; v. 283; p. 690.
- Lundquist, Frank A., Portland, Oreg., assignor, by mesne assignments, to Western Electric Company, Incorporated. Telephone-exchange. (Reissue.) No. 15,048; Feb. 22; v. 283; p. 707.
- Lundskow, Henry P. (See Martinson, William, assignor.)
- Lutgers, Fred, et al. (See Williams, Frank, assignor.)
- Lutz, Edward H., Milwaukee, Wis. Window-sash holder. No. 1,367,749; Feb. 8; v. 283; p. 220.
- Lux, James H., Thompson Falls, Mont. Electric-circuit breaker. No. 1,369,035; Feb. 22; v. 283; p. 565.
- Lyda, Arthur W., North Canton, Ohio. Life-raft. No. 1,369,289; Feb. 22; v. 283; p. 613.
- Lynch, John H., et al. (See Carlson, Ivar, assignor.)
- Lyon & Healy. (See Kirk, Walter I., assignor.)
- Lyons, Harry C., New York, N. Y. Dispensing means for beverages containing chocolate, cocoa, &c. No. 1,367,823; Feb. 8; v. 283; p. 243.
- Lysle, Edmond H. (See Hill, M. F. and L. D., assignors.)
- Lysle, Edmond H., New York, N. Y. Optical apparatus and using the same. No. 1,367,487; Feb. 1; v. 283; p. 120.
- Lysle, Edmond H., New York, N. Y. Optical apparatus. No. 1,367,488; Feb. 1; v. 283; p. 120.
- McAlear, James, Chicago, Ill. Vacuum-producing device. No. 1,367,556; Feb. 8; v. 283; p. 191.
- McAlvay, Budd D., L. S. Hamer, and G. C. Deakins, Anaheim, Calif. Interlocking casing-reducing nipple. No. 1,367,156; Feb. 1; v. 283; p. 54.
- McAuliffe, John W., Pelham, N. Y. Self-stripping double-edged safety-razor. No. 1,367,157; Feb. 1; v. 283; p. 55.
- McAuliffe, John W., Pelham, N. Y. Self-stripping safety razor. No. 1,367,158; Feb. 1; v. 283; p. 55.
- McAuliffe, John W., Pelham, N. Y. Combined razor and stropper. No. 1,367,159; Feb. 1; v. 283; p. 55.
- McCabe, Hugh, Lawrence, Mass. Cold-hanging straight-edged sheet metal. No. 1,368,342; Feb. 15; v. 283; p. 390.
- McCaftrey, Horace, Dallas, Tex. Screen-fastener. No. 1,369,036; Feb. 22; v. 283; p. 565.
- McCallum, D. R. (See Hinson, John K., assignor.)
- McCann, James, Gage, Mont. Heating-stove. No. 1,368,405; Feb. 15; v. 283; p. 402.
- McCarty, Dwight G., Emmetsburg, Iowa. Office appliance. No. 1,367,983; Feb. 8; v. 283; p. 273.
- McClay, Charles E., Los Angeles, Calif. Wind-deflector for vehicles and making the same. No. 1,367,527; Feb. 1; v. 283; p. 128.
- McClellan, Walter N., assignor of twenty per cent. to G. M. Hinson, Brooklyn, N. Y. Car-door-actuating mechanism. No. 1,369,681; Feb. 22; v. 283; p. 690.
- McClure, David F., Osceola, Ind. Dirigible headlight for automobiles. No. 1,367,882; Feb. 8; v. 283; p. 255.
- McClurkin, Oak B., Morning Sun, Iowa. Wrench. No. 1,367,407; Feb. 1; v. 283; p. 105.
- McClurkin, Oak B., Morning Sun, Iowa. Wrench. No. 1,367,408; Feb. 1; v. 283; p. 105.
- McComb, James K., Toronto, Ontario, Canada. Garment. No. 1,367,666; Feb. 8; v. 283; p. 213.
- McConway & Torley Company, The. (See George, Enoch, Jr., assignor.)
- McCourt, Patrick H., St. Louis, Mo. Umbrella-supporting means. No. 1,368,516; Feb. 15; v. 283; p. 425.
- McCoy, Walter E., New York, N. Y., assignor to Westinghouse Electric & Manufacturing Company. Summating device. No. 1,368,348; Feb. 15; v. 283; p. 391.
- McCrachon, Edward H., Syracuse, N. Y. Lutte. No. 1,367,065; Feb. 1; v. 283; p. 36.
- McDonald, David C., Hammonton, Calif. Radial excavator. No. 1,367,160; Feb. 1; v. 283; p. 55.
- McDonald, Frances C., Chicago, Ill. Fastening device. (Reissue.) No. 15,042; Feb. 15; v. 283; p. 517.
- McDonald, John U., Decatur, Ill. Making gas. No. 1,367,321; Feb. 1; v. 283; p. 87.
- McDonough, Joseph G., Eau Claire, Wis. Lumber marker and grader. No. 1,367,066; Feb. 1; v. 283; p. 37.
- McDougall, Taylor, Pasadena, and J. F. Smedley, assignors to Motorcycle Sweeper Company, Los Angeles, Calif. Street-sweeper. No. 1,369,118; Feb. 22; v. 283; p. 581.
- McDowell, Byron J., San Diego, Calif. Necktie and collar holder. No. 1,368,740; Feb. 15; v. 283; p. 468.
- McElhattan, Harrison W., Shippensburg, Pa. Rope-knife. No. 1,368,951; Feb. 15; v. 283; p. 509.
- McFarland, J. C., Company. (See Treiber, Theodore R., assignor.)
- McFarland, Robert R., Wilkinsburg, Pa. Nut-lock. No. 1,368,637; Feb. 15; v. 283; p. 448.
- McFee, William E., Mount Carroll, Ill. Connecting-link. No. 1,368,175; Feb. 8; v. 283; p. 309.
- McGill Manufacturing Company. (See Despard, Victor R., assignor.)
- McGinness, Harry S. (See Childers, Walter M., assignor.)
- McGowan, Edmund J., et al. (See Schultenover, Isidore J., assignor.)
- McGregor, Allan L., Chicago, Ill. Automobile-bumper. No. 1,369,253; Feb. 22; v. 283; p. 607.
- McGregor, Allan L., Chicago, Ill. Automobile-bumper. No. 1,369,254; Feb. 22; v. 283; p. 607.
- McGuire, Patrick, Superior, Wis. Toilet article. No. 1,367,489; Feb. 1; v. 283; p. 121.
- McHardy, Robert, Toronto, Ontario, Canada. Opener for milk-bottles and the like. No. 1,368,406; Feb. 15; v. 283; p. 402.
- McHarg, Leslie, Freeport, N. Y. Pier-door. No. 1,369,425; Feb. 22; v. 283; p. 640.
- McIntosh, Burnett, Brooklyn, N. Y., assignor, by mesne assignments, to F. A. Hall & Sons, Davenport, Iod. No. 1,367,067; Feb. 1; v. 283; p. 37.
- McIntyre, Chauncey W. (See Fawkes, C. E., and McIntyre.)
- McKee, Stillman W., Los Angeles, Calif. Follow-up index or filing system. No. 1,369,255; Feb. 22; v. 283; p. 607.
- McKeiz, Harold, Harlan, Iowa. Replanting attachment for cultivators. No. 1,367,916; Feb. 8; v. 283; p. 260.
- McKenna, George F., Nitro, W. Va. Metal cuff for automobile-wheels. No. 1,368,552; Feb. 15; v. 283; p. 509.
- McKeown, Samuel C., assignor to Splitdorf Electrical Company, Newark, N. J. Electro-circuit-controlling device. No. 1,368,517; Feb. 15; v. 283; p. 425.
- McKinnan-Terry Drill Company. (See Ayer, William T., assignor.)
- McKinney, Francis B., Baldwin township, Allegheny county, assignor of one-half to J. H. Poague, Pittsburgh, Pa. Device for laying out structural work. No. 1,367,612; Feb. 8; v. 283; p. 202.
- McKinney, William P., Tacoma, Wash. Safety-hook. No. 1,367,270; Feb. 1; v. 283; p. 77.
- McKnight, William M., Houston, Tex. Strain-jacket for telephone-poles. No. 1,369,119; Feb. 22; v. 283; p. 581.
- McLean, Marrs, Beaumont, Tex. Well-screen. No. 1,367,406; Feb. 1; v. 283; p. 104.
- McMahon, Harry F., Toronto, Ontario, Canada. Camera. No. 1,369,753; Feb. 22; v. 283; p. 705.
- McManus, Edward. (See Montgomery, R. L., and McManus.)

# ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED DURING THE MONTH OF FEBRUARY, 1921.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

- Abdominal support and shoulder-brace, Combined. C. Munter. No. 1,367,420; Feb. 1; v. 283; p. 107.
- Abdominal support and shoulder-brace, Combined. C. Munter. No. 1,367,421; Feb. 1; v. 283; p. 107.
- Abrading or polishing apparatus. C. E. Farrington. No. 1,367,808; Feb. 8; v. 283; p. 240.
- Acetic anhydrid, Making. H. Dreyfus. No. 1,368,789; Feb. 15; v. 283; p. 478.
- Acid, Making phosphoric. W. H. Allen. No. 1,368,379; Feb. 15; v. 283; p. 398.
- Adjustable end die. J. G. Wright. No. 1,367,849; Feb. 8; v. 283; p. 248.
- Adjustable wrench. C. W. Brown. No. 1,367,456; Feb. 1; v. 283; p. 114.
- Adjuster. T. Penwell and H. E. Brown. No. 1,367,426; Feb. 1; v. 283; p. 108.
- Advertising device. J. H. Solberg. No. 1,369,307; Feb. 22; v. 283; p. 616.
- Aeroplane. O. J. Abrahamson. No. 1,366,895; Feb. 1; v. 283; p. 3.
- Aeroplane. I. Carlson. No. 1,368,891; Feb. 15; v. 283; p. 498.
- Aeroplane. R. W. Jordan. No. 1,369,746; Feb. 22; v. 283; p. 703.
- Aeroplane. W. F. Osborne. No. 1,368,967; Feb. 15; v. 283; p. 511.
- Aeroplane. I. M. Upperco. No. 1,367,218; Feb. 1; v. 283; p. 67.
- Aeroplane-fitting. E. G. Bahl. No. 1,369,374; Feb. 22; v. 283; p. 630.
- Aeroplane safety device. J. D. Kennard. No. 1,367,483; Feb. 1; v. 283; p. 119.
- Aeroplane-stabilizer. E. A. Sperry. No. 1,368,226; Feb. 8; v. 283; p. 320.
- Aeroplanes, Bomb for. A. Bettica. No. 1,367,938; Feb. 8; v. 283; p. 264.
- Aeroplanes, Bomb-magazine for. L. S. Clarke. No. 1,368,322; Feb. 15; v. 283; p. 386.
- Aeroplanes, Safety appliance for. J. P. Ball. No. 1,369,158; Feb. 22; v. 283; p. 588.
- Aeroplanes, Transmission for the propeller-shafts of. J. C. Mullins, Jr. No. 1,369,044; Feb. 22; v. 283; p. 566.
- Agave and similar fleshy plants, Liberating the fibers of the. R. Quijano. No. 1,368,750; Feb. 15; v. 283; p. 470.
- Aileron, Emergency-. I. G. Foster. No. 1,369,333; Feb. 22; v. 283; p. 622.
- Air-cleaner. M. B. Morgan. No. 1,367,623; Feb. 8; v. 283; p. 204.
- Air-compressor-lubricating device. J. E. Osmer. No. 1,367,560; Feb. 8; v. 283; p. 192.
- Air-separator. T. J. Sturtevant. No. 1,367,635; Feb. 8; v. 283; p. 206.
- Air-separator. T. J. Sturtevant. No. 1,367,636; Feb. 8; v. 283; p. 207.
- Air-separator. T. J. Sturtevant. No. 1,367,637; Feb. 8; v. 283; p. 207.
- Air-spring suspension. R. Liebau. No. 1,368,563; Feb. 15; v. 283; p. 434.
- Air-spring suspension. R. Liebau. No. 1,368,564; Feb. 15; v. 283; p. 434.
- Aircraft. M. T. Brush. No. 1,367,295; Feb. 1; v. 283; p. 82.
- Aircraft, Air-distance indicator for. M. M. Titterington. No. 1,368,000; Feb. 8; v. 283; p. 276.
- Aircraft, Interlocking balancing system for. J. P. Tarbox. No. 1,367,840; Feb. 8; v. 283; p. 247.
- Aircraft, Landing-carriage for. J. J. M. A. E. Schneider. No. 1,367,992; Feb. 8; v. 283; p. 274.
- Aircraft, Longitudinal-control system for. W. S. Burgess. No. 1,368,542; Feb. 13; v. 283; p. 430.
- Airplane. C. H. Georgi. No. 1,368,133; Feb. 8; v. 283; p. 302.
- Airplane. D. E. Randall. No. 1,369,468; Feb. 22; v. 283; p. 648.
- Airplane, Collapsible. O. C. Holgerson. No. 1,368,151; Feb. 8; v. 283; p. 305.
- Airplane construction. G. H. Curtiss. No. 1,368,549; Feb. 15; v. 283; p. 431.
- Airplane-fuselage. W. L. Gilmore. No. 1,368,428; Feb. 15; v. 283; p. 407.
- Airships, Controlling device for. J. A. Latham. No. 1,366,917; Feb. 1; v. 283; p. 7.
- Alarm: See—
- Automatic alarm. Burglar-alarm.
- Automatic fire-alarm. Fire-alarm.
- Automobile-theft alarm.
- Album. J. W. Johnson. No. 1,368,803; Feb. 15; v. 283; p. 480.
- Alloy sheets, Controlling the grain in magnetic. V. B. Browne. No. 1,367,015; Feb. 1; v. 283; p. 26.
- Alternator, High-frequency. E. F. W. Alexanderson. No. 1,369,601; Feb. 22; v. 283; p. 674.
- Aluminum, Production of ferro-silicon. W. B. D. Penniman and R. S. White. No. 1,369,298; Feb. 22; v. 283; p. 615.
- Amalgam-machine, Dental. A. G. Wright. No. 1,369,209; Feb. 22; v. 283; p. 598.
- Amalgamator, Gold. H. C. Brown. No. 1,369,388; Feb. 22; v. 283; p. 633.
- Ammonium chlorid from fuels, Producing. W. Ostwald. No. 1,367,082; Feb. 1; v. 283; p. 40.
- Ammonium phosphate. H. C. Hetherington and J. M. Braham. No. 1,369,763; Feb. 22; v. 283; p. 707.
- Amusement apparatus. F. R. Chester. No. 1,368,115; Feb. 8; v. 283; p. 298.
- Amusement apparatus. H. B. Moore. No. 1,367,417; Feb. 1; v. 283; p. 106.
- Amusement apparatus. E. B. Glendenning. No. 1,369,525; Feb. 22; v. 283; p. 659.
- Amusement device. P. Faber. No. 1,367,868; Feb. 8; v. 283; p. 252.
- Anchor, Trap-. W. R. Lazenby. No. 1,368,813; Feb. 15; v. 283; p. 482.
- Anchoring device. N. S. Sked. No. 1,368,296; Feb. 15; v. 283; p. 381.
- Anhydrous zinc chlorid, Production of. P. Danckwardt. No. 1,369,729; Feb. 22; v. 283; p. 700.
- Animal-crate. G. H. Hall. No. 1,368,209; Feb. 8; v. 283; p. 317.
- Animal-trap. P. Gallagher. No. 1,369,020; Feb. 22; v. 283; p. 562.
- Anti-skid clamp. H. Summerfield. No. 1,369,363; Feb. 22; v. 283; p. 628.
- Anticreeper. D. L. Vaughan. No. 1,367,901; Feb. 8; v. 283; p. 257.
- Antiglare attachment. W. S. Sumner. No. 1,368,986; Feb. 15; v. 283; p. 515.
- Antiskid device. H. Saint Pierce. No. 1,368,834; Feb. 15; v. 283; p. 487.
- Apparel, Laced article of. C. Munter. No. 1,367,419; Feb. 1; v. 283; p. 107.
- Apron, Rubbing-. C. C. Shepard. No. 1,367,281; Feb. 1; v. 283; p. 79.
- Arc-extinguishing-device. L. N. Crichton. No. 1,368,325; Feb. 15; v. 283; p. 387.
- Arc-welding system, Alternating-current. J. Kjekstad. No. 1,368,507; Feb. 15; v. 283; p. 423.
- Arch-supporter. W. N. Barrett. No. 1,369,375; Feb. 22; v. 283; p. 630.
- Arm, Small-. E. A. L. Bourdelles. No. 1,367,453; Feb. 1; v. 283; p. 113.
- Aromas of food, &c., Recovery of escaping. C. W. Trigg. No. 1,367,725; Feb. 8; v. 283; p. 224.
- Aromatic and flavoring constituents, Recovery of. C. W. Trigg. No. 1,367,724; Feb. 8; v. 283; p. 224.
- Article-carrier. B. Borden. No. 1,367,654; Feb. 8; v. 283; p. 210.
- Article of manufacture. H. I. Morris. No. 1,367,751; Feb. 8; v. 283; p. 229.
- Articulator. J. W. Needles. No. 1,368,408; Feb. 15; v. 283; p. 403.
- Ash-pan. E. M. Gehrman. No. 1,369,739; Feb. 22; v. 283; p. 702.
- Attachment-plug, Electrical. J. G. Peterson. No. 1,367,562; Feb. 8; v. 283; p. 193.
- Auto-jack, Automatic. J. Borghes and J. F. Stahley. No. 1,369,610; Feb. 22; v. 283; p. 676.



Wire-fence tool. P. J. Hindmarsh. No. 1,367,516; Feb. 1; v. 283; p. 126.  
 Wire-gauze fabric, Method of and means for perforating. J. A. S. Becker. No. 1,368,233; Feb. 15; v. 283; p. 369.  
 Wire or other rope, Cargo-net of. W. F. Goodyear. No. 1,367,249; Feb. 1; v. 283; p. 73.  
 Wire, Reel for barbed. E. Nelson. No. 1,368,648; Feb. 15; v. 283; p. 450.  
 Wire, rolling and cutting device. A. Sherpitis. No. 1,367,282; Feb. 1; v. 283; p. 79.  
 Wire-stretcher. A. Faist. No. 1,367,129; Feb. 1; v. 283; p. 49.  
 Wire-support. S. S. Matthes. No. 1,367,618; Feb. 8; v. 283; p. 203.  
 Wire-twisting chuck. G. B. Smith. No. 1,367,632; Feb. 8; v. 283; p. 206.  
 Wireless direction-finder. H. J. Round. No. 1,368,657; Feb. 15; v. 283; p. 452.  
 Wireless telegraphy, Aerial conductor for. C. S. Franklin. (Reissue.) Nos. 15,040-1; Feb. 15; v. 283; p. 517.  
 Wireless telegraphy and telephony, Aerial system employed in. C. S. Franklin. No. 1,368,622; Feb. 15; v. 283; p. 445.  
 Wood-carving machine. J. Galbraith. No. 1,368,712; Feb. 15; v. 283; p. 463.  
 Wood preservation and means for effecting the same. G. Pfeiffer, Jr. No. 1,369,539; Feb. 22; v. 283; p. 662.  
 Woodworking-machine. M. Hutchinson. No. 1,369,744; Feb. 22; v. 283; p. 703.  
 Work and tool holder. H. Brooker. No. 1,367,014; Feb. 1; v. 283; p. 26.  
 Work-handling method. H. A. Lewis. No. 1,367,061; Feb. 1; v. 283; p. 36.  
 Work-support, Adjustable. N. Schwagel. No. 1,366,962; Feb. 1; v. 283; p. 16.  
 Woven fabric. F. H. Stewart. No. 1,368,214; Feb. 8; v. 283; p. 318.  
 Woven fabric. F. H. Stewart. No. 1,368,215; Feb. 8; v. 283; p. 318.  
 Wrench: See—  
     Adjustable wrench. Nut-wrench.  
     Monkey-wrench. Pipe-wrench.  
     Multiple adjustable wrench. Spud-wrench.

Wrench. W. B. Bandy. No. 1,368,380; Feb. 15; v. 283; p. 398.  
 Wrench. C. Bernard. No. 1,367,730; Feb. 8; v. 283; p. 225.  
 Wrench. E. W. Bullard. No. 1,367,297; Feb. 1; v. 283; p. 82.  
 Wrench. E. W. Cochran. No. 1,368,900; Feb. 15; v. 283; p. 499.  
 Wrench. J. C. Holley. No. 1,367,969; Feb. 8; v. 283; p. 270.  
 Wrench. J. Jaros. No. 1,368,801; Feb. 15; v. 283; p. 480.  
 Wrench. O. B. McClurkin. No. 1,367,407; Feb. 1; v. 283; p. 105.  
 Wrench. O. B. McClurkin. No. 1,367,408; Feb. 1; v. 283; p. 105.  
 Wrench. J. H. Miskimen. No. 1,369,459; Feb. 22; v. 283; p. 646.  
 Wrench. C. E. Nebel. No. 1,367,422; Feb. 1; v. 283; p. 107.  
 Wrench. E. E. Sievert. No. 1,368,580; Feb. 15; v. 283; p. 437.  
 Wrench. D. W. B. Wilson. No. 1,367,222; Feb. 1; v. 283; p. 68.  
 Wringers, Feeding device for clothes-. R. P. Wright. No. 1,368,872; Feb. 15; v. 283; p. 494.  
 Wringers, Positive pressure-release for clothes-. R. P. Wright. No. 1,368,873; Feb. 15; v. 283; p. 494.  
 Writing attachment. J. P. Glaesser. No. 1,367,872; Feb. 8; v. 283; p. 253.  
 X-ray films, Cassette for. M. B. Hodgson. No. 1,367,601; Feb. 8; v. 283; p. 200.  
 X-rays and similar radiations, Protecting device against. P. A. M. J. Angebaud. No. 1,368,094; Feb. 8; v. 283; p. 294.  
 Yarns in the form of hanks, skeins, or bundles, Machine for dyeing or similarly treating. A. Ashworth. No. 1,367,112; Feb. 1; v. 283; p. 46.  
 Yoke. J. F. O'Connor. No. 1,369,535; Feb. 22; v. 283; p. 661.

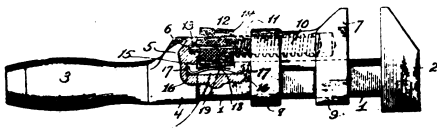


## ALPHABETICAL LIST OF DESIGNS.

Ash-can, garbage-can, or like receptacle. H. J. Schaffer. No. 57,156; Feb. 22; v. 283; p. 718.  
 Automobile-body. A. de Velasco. No. 57,117; Feb. 22; v. 283; p. 712.  
 Automobile direction-indicator. R. R. McDonnell. No. 57,141; Feb. 22; v. 283; p. 716.  
 Automobile-signal. E. E. Mullvain. No. 57,060; Feb. 1; v. 283; p. 134.  
 Automobile-top. F. D. Gould. No. 57,041; Feb. 1; v. 283; p. 131.  
 Badge, pin, emblem, charm, or similar article. M. A. Howard. No. 57,046; Feb. 1; v. 283; p. 131.  
 Bank, Savings-. J. H. Bailey. No. 57,100; Feb. 22; v. 283; p. 709.  
 Beverages, Dispensing-cooler for. A. G. Richardson and W. J. Atwood. No. 57,095; Feb. 8; v. 283; p. 326.  
 Bottle. S. Ohki. No. 57,147; Feb. 22; v. 283; p. 717.  
 Bracelet. L. D. Miller. No. 57,180; Feb. 22; v. 283; p. 722.  
 Brush or similar article. Hair-. L. A. Samstag. No. 57,154; Feb. 22; v. 283; p. 718.  
 Chain, Watch-. J. C. O'Brien. No. 57,146; Feb. 22; v. 283; p. 716.  
 Cigar-container. C. E. Tillman. No. 57,173; Feb. 22; v. 283; p. 721.  
 Cleaner, Vacuum-. O. Brintzenhofe. No. 57,100; Feb. 22; v. 283; p. 710.  
 Clothes-stick head. J. A. Busch. No. 57,112; Feb. 22; v. 283; p. 711.  
 Coin-collector. J. A. Hensey. No. 57,042; Feb. 1; v. 283; p. 131.  
 Condenser and freezer, Casing for a combined. J. M. Larsen. No. 57,137; Feb. 22; v. 283; p. 715.  
 Crank-case-repair arm. W. F. Hudson. No. 57,047; Feb. 1; v. 283; p. 132.  
 Cup, trophy, or article of similar nature. A. Johnson. No. 57,150; Feb. 22; v. 283; p. 714.  
 Current-tap. R. B. Benjamin. No. 57,104; Feb. 22; v. 283; p. 710.  
 Dental die device. J. H. Hollison and C. H. Miller. No. 57,044; Feb. 1; v. 283; p. 131.  
 Desk. W. L. Fox. No. 57,075; Feb. 8; v. 283; p. 322.  
 Dessert-cup, Edible. S. E. Winder. No. 57,177; Feb. 22; v. 283; p. 722.  
 Display-counter. W. T. Sherer. No. 57,096; Feb. 8; v. 283; p. 326.  
 Furnace, Hot-air. C. S. Prizer. No. 57,149; Feb. 22; v. 283; p. 717.  
 Game apparatus. C. C. Rehark. No. 57,062; Feb. 1; v. 283; p. 135.  
 Game-board. E. J. Daley, Jr. No. 57,037; Feb. 1; v. 283; p. 130.  
 Game-board. R. L. Stadnick. No. 57,160; Feb. 22; v. 283; p. 719.

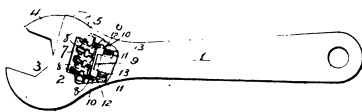
Garment-protector. G. K. Guinzburg. No. 57,179; Feb. 22; v. 283; p. 722.  
 Gun, Grease-. C. E. Bown. No. 57,107; Feb. 22; v. 283; p. 710.  
 Hat and coat rack and umbrella-stand, Combined. N. Williams. No. 57,066; Feb. 1; v. 283; p. 135.  
 Hoater. W. M. Belt. No. 57,101; Feb. 22; v. 283; p. 709.  
 Hoel, Rubber. W. A. Ream. No. 57,150; Feb. 22; v. 283; p. 717.  
 Hoe. W. Krekiewicz. No. 57,057; Feb. 1; v. 283; p. 134.  
 Horn, Flexible shoe-. J. H. Davis. No. 57,115; Feb. 22; v. 283; p. 711.  
 Husk. R. B. Benjamin. No. 57,105; Feb. 22; v. 283; p. 710.  
 Jar or similar article, Closure-cap for a. A. and H. Ingram. Nos. 57,048-54; Feb. 1; v. 283; pp. 132-3.  
 Lamp. J. E. Holmgren. No. 57,045; Feb. 1; v. 283; p. 131.  
 Lamp, Acetylene-. W. J. Frisbie. No. 67,037; Feb. 1; v. 283; p. 130.  
 Lamp-base. L. R. Wellman. No. 57,176; Feb. 22; v. 283; p. 721.  
 Lamp-chimney. W. W. Crowl. No. 57,114; Feb. 22; v. 283; p. 711.  
 Lighting-fixture, Ceiling-plate for a. G. V. Strahan. Nos. 57,170-1; Feb. 22; v. 283; pp. 720-1.  
 Lighting-fixture, Standard for a. G. V. Strahan. Nos. 57,163-5; Feb. 22; v. 283; pp. 719-20.  
 Lighting-fixture, Wall-bracket for a. G. V. Strahan. Nos. 57,161-2; Feb. 22; v. 283; p. 719.  
 Lighting-fixture, Wall-bracket for a. G. V. Strahan. Nos. 57,166-9; Feb. 22; v. 283; p. 720.  
 Match-box holder. G. Rudroff. No. 57,063; Feb. 1; v. 283; p. 135.  
 Milk-boiler. S. Staplenski. No. 57,064; Feb. 1; v. 283; p. 135.  
 Nut-wrench. G. Allen. No. 57,068; Feb. 8; v. 283; p. 321.  
 Palm-stand. W. O'Blaza. No. 57,145; Feb. 22; v. 283; p. 716.  
 Phonograph-cabinet. H. Orsenigo. Nos. 57,081-94; Feb. 8; v. 283; pp. 324-6.  
 Phonograph-cabinet. J. Wolff. No. 57,178; Feb. 22; v. 283; p. 722.  
 Pin, punch, or similar tool, Finger-grip portion of a. A. W. Marex. No. 57,139; Feb. 22; v. 283; p. 715.  
 Pipe-wrench. G. Allen. No. 57,069; Feb. 8; v. 283; p. 321.  
 Power plant, Cabinet for an electrical. B. A. Linderman. No. 57,078; Feb. 8; v. 283; p. 323.  
 Power-transmitting-belt. D. F. Morgan. No. 57,144; Feb. 22; v. 283; p. 716.  
 Pump-casing. S. S. Cramer. No. 57,035; Feb. 1; v. 283; p. 130.

- 1,367,407. WRENCH. OAK B. McCLURKIN, Morning Sun, Iowa. Filed Feb. 9, 1920. Serial No. 357,278. 4 Claims. (Cl. 81—171.)



1. In a wrench, the combination of a fixed jaw, a movable jaw, threaded means for adjusting the movable jaw, said threaded means including a rotatable member having an annular series of grooves, and a bowed spring having bearings at both ends and provided between its ends with a projection to engage in any one of said grooves and hold said rotatable member and movable jaw in adjusted position.

- 1,367,408. WRENCH. OAK B. McCLURKIN, Morning Sun, Iowa. Filed Feb. 9, 1920. Serial No. 357,279. 1 Claim. (Cl. 81—165.)

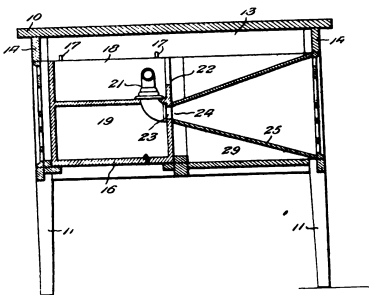


In a wrench, the combination of a bar having a head at one end provided with a fixed jaw, said head having an opening, a movable jaw mounted on said head, a worm rack carried by the movable jaw and movable in said head, a worm nut mounted in the opening in said head and meshing with said worm rack, said nut having notches with beveled walls extending across the worm threads thereon, a latch to engage said notches, said head being socketed adjacent to said latch, and said latch formed to enter the socketed portion of the head, and spring means in said socketed portion of the head acting to press the latch toward the worm nut.

- 1,367,409. PROCESS OF PRODUCING FERROUS OXID. ARCHIBALD J. MACDOUGALL, Toronto, Ontario, Canada, assignor, by direct and mesne assignments, of one-sixth to Herbert C. Bugbird, New York, N. Y., one-sixth to James G. Rowe and one-half to Ray H. Bennett, North Tonawanda, N. Y. Filed Aug. 21, 1920. Serial No. 405,055. 13 Claims. (Cl. 204—9.)

2. The process of producing ferrous oxid which consists in forming an iron salt by subjecting iron within a cell to the acid product of the electrolysis of an aqueous solution of a salt, and converting said iron salt to ferrous oxid by the action of the alkaline product of the electrolysis of the said aqueous solution.

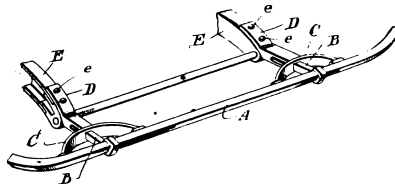
- 1,367,410. CABINET. RICHARD W. MAEDLER, Fort Lee, N. J., assignor to Daniel P. Berghelmer, New York, N. Y. Filed Apr. 2, 1920. Serial No. 370,732. 2 Claims. (Cl. 45—52.)



2. The combination with a table having a compartment located beneath the top, of a drawer slidably mounted in

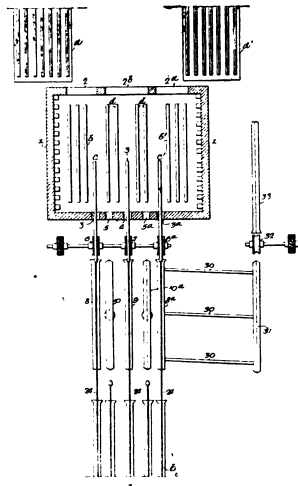
said compartment and said drawer having an opening in one side wall, a phonograph within the drawer and a horn located within the compartment with the small end of the horn registering with the opening in the drawer when the latter is closed.

- 1,367,411. AUTOMOBILE-BUMPER. JAMES BRUCE MASON, Jr., Nashville, Tenn. Filed June 22, 1920. Serial No. 300,940. 3 Claims. (Cl. 293—55.)



3. An automobile bumper, comprising a bumper bar having rearwardly extending arms, curved metallic springs through which the arms extend and in which they are free to move, shoes on the outer ends of the springs engaging the bumper bar, brackets for attaching the bumper to the frame of an automobile and which have sockets that receive the rear ends of the arms, and means for holding the arms in the sockets but which permit the arms to slide in the sockets.

- 1,367,412. MANUFACTURE OF LAPWELDED TUBES. JAMES H. MATHESON, Reading, Pa. Filed Mar. 30, 1920. Serial No. 369,858. 4 Claims. (Cl. 78—88.)



1. The combination in a furnace, of three sets of welding rolls in front thereof, said furnace having openings in line with the rolls, whereby two sets of tube skelps can be welded by being passed between two sets of rolls and reheated in the furnace and both sets of skelps passed between the third pair of rewelding rolls.

- 1,367,413. APPARATUS FOR MAKING LAPWELDED TUBES. JAMES H. MATHESON, Reading, Pa. Filed Apr. 6, 1920. Serial No. 371,575. 4 Claims. (Cl. 78—88.)

1. The combination of a heating furnace having two charging openings at one end of the furnace and two withdrawal openings alternating with the charging open-

# ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 1st DAY OF FEBRUARY, 1921.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

- Abbott, Charles C., assignor to General Electric Company, Pittsfield, Mass. Electric heating unit. No. 1,367,341; Feb. 1; v. 283; p. 91.
- Abrahamson, Oscar J., Carpenter, N. D. Aeroplane. No. 1,366,895; Feb. 1; v. 283; p. 3.
- Arbeter Felling Machine Company. (See Hayes, Thomas J., assignor.)
- Adams-Bagnell Electric Company, The. (See Gabraith, Daniel H., assignor.)
- Adams-Bagnall Electric Company, The. (See Horton, William M., assignor.)
- Adams, Edward M., assignor to M. H. Petigor, New York, N. Y. Tumbler-rinser. No. 1,367,342; Feb. 1; v. 283; p. 92.
- Agnew, Samuel E., Dawson, N. Mex. Cigarette-making machine. No. 1,367,171; Feb. 1; v. 283; p. 57.
- Akers, David, Carlstadt, N. J. Sediment-remover. No. 1,367,449; Feb. 1; v. 283; p. 112.
- Albright-Nell Company. (See Kohlhepp, John W., assignor.)
- Alleman, John K., Amberson, Pa. Husking-truck and fodder-binder. No. 1,367,344; Feb. 1; v. 283; p. 92.
- Allen, Simeon, C., *et al.* (See Logan, Frank J., assignor.)
- Allis, Hannora E., administratrix. (See Allis, Thomas V.)
- Allis, Thomas V., deceased, Pittsburgh, Pa.; H. E. Allis administratrix. Heat-treating sheet and tin-plate bars. No. 1,367,000; Feb. 1; v. 283; p. 24.
- American District Steam Company. (See Barnes, Eugene L., assignor.)
- American Hard Rubber Co. (See Boyer, Edwin S., assignor.)
- American Metal Cap Company. (See Hammer, Charles, assignor.)
- American Pretzel Company, The. (See Schumaker, Lorraine J., assignor.)
- American Radiator Company. (See Landon, Archer A., assignor.)
- Aluminum Company of America. (See James, Lewis R., assignor.)
- Anderson, Niles H., North Easton, Mass. Toy vehicle. No. 1,367,345; Feb. 1; v. 283; p. 92.
- Anderson, William E., Phillipsburg, assignor to A. S. Cameron Steam Pump Works, Jersey City, N. J. Impeller-vane for water-pumps. No. 1,367,343; Feb. 1; v. 283; p. 92.
- Andresen, Frederick P., Brooklyn, N. Y. Hair-ribbon holder. No. 1,367,172; Feb. 1; v. 283; p. 58.
- Anthony, Thomas P., Edgewater Park, assignor to United States Cast Iron Pipe and Foundry Company, Burlington, N. J. Pneumatic rammer. No. 1,367,001; Feb. 1; v. 283; p. 24.
- Appelqvist, Gunnar S. A., and E. O. E. Tyden, Stockholm, Sweden. Method of and apparatus for concentrating ore. No. 1,367,223; Feb. 1; v. 283; p. 68.
- Archer, Alfred W. (See Barnickol, W. F., and Archer.)
- Armstrong, Harry Y., Springfield, Mass., assignor to one-half to W. L. Hall, Chicago, Ill. Envelop-making machine and method. No. 1,367,291; Feb. 1; v. 283; p. 81.
- Armstrong, Morgan K., Winnetka, assignor to Bestwall Manufacturing Company, Chicago, Ill. Apparatus for making plaster-board. No. 1,367,292; Feb. 1; v. 283; p. 81.
- Arnold, Harold De F., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Radio-receiving system. No. 1,367,224; Feb. 1; v. 283; p. 68.
- Ashworth, Alfred, Manchester, England. Machine for dyeing or similarly treating yarns in the form of hanks, skeins, or bundles. No. 1,367,112; Feb. 1; v. 283; p. 46.
- Atwood, George F., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system. No. 1,367,113; Feb. 1; v. 283; p. 46.
- Aurich, Eugen, and F. Wolf, New York, N. Y. Art lithography. No. 1,367,521; Feb. 1; v. 283; p. 127.
- Automotive Manufacturing Company, The. (See Butler, Clyde G., assignor.)
- Auto Strop Company. (See Galsman, Henry J., assignor.)
- Awiszus, Adam, Detroit, Mich. Mixing device. No. 1,367,002; Feb. 1; v. 283; p. 24.
- Baker, Newton D., Secretary of War, trustee. (See Mann, Randolph M., assignor.)
- Bailey, Alfred J., Wanstead, London, England. Packing for stuffing-boxes and the like. No. 1,367,003; Feb. 1; v. 283; p. 24.
- Balkwill, Stephen, Cleveland, Ohio. Railway-crossing. No. 1,367,004; Feb. 1; v. 283; p. 24.
- Ballou, Russell A. (See Williams, David C., assignor.)
- Barch, Walter F., Washington, D. C., assignor to Keuffel & Esser Co., Hoboken, N. J. Fountain lettering-pen. No. 1,367,346; Feb. 1; v. 283; p. 92.
- Bardsley, Henry, Providence, R. I., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Double-cylinder dobby. No. 1,367,005; Feb. 1; v. 283; p. 24.
- Barker, William H., New Brighton, assignor to C. W. Wright, New York, N. Y. Life-belt. No. 1,367,225; Feb. 1; v. 283; p. 68.
- Barnes, Eugene L., Buffalo, assignor to American District Steam Company, North Tonawanda, N. Y. Expansion-joint. No. 1,367,347; Feb. 1; v. 283; p. 92.
- Barnes, Eugene L., Buffalo, assignor to American District Steam Company, North Tonawanda, N. Y. Expansion device or slip-joint. No. 1,367,348; Feb. 1; v. 283; p. 93.
- Barnes, Eugene L., Buffalo, assignor to American District Steam Company, North Tonawanda, N. Y. Expansion device or slip-joint. No. 1,367,349; Feb. 1; v. 283; p. 93.
- Barnes, Frank. (See Hutchinson, J. T., Shaw, and Barnes.)
- Barnickol, William F., and A. W. Archer, Stockton, Calif. Vertical pump. No. 1,367,450; Feb. 1; v. 283; p. 113.
- Barnikowski, Joseph. (See Dembowski, Stephen, assignor.)
- Barton, Archilles A., Glendale, Calif. Bucket for deep-well pumps. No. 1,367,451; Feb. 1; v. 283; p. 113.
- Bate, Ira D., West Jefferson, Ohio. Farm-gate. No. 1,367,226; Feb. 1; v. 282; p. 68.
- Bates, Arthur, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Manufacture of turn shoes. No. 1,366,896; Feb. 1; v. 283; p. 3.
- Baunler, Albert J., Kenmore, assignor to The Buffalo Sled Company, Buffalo, N. Y. Wheel-mounting. No. 1,367,006; Feb. 1; v. 283; p. 25.
- Baumgartl, Leroy, Chicago, Ill. Machine for manufacturing slabs of the like of cement or like material. No. 1,367,227; Feb. 1; v. 283; p. 68.
- Bazzoni, Lewis J., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Manufacture of shoes. No. 1,366,898; Feb. 1; v. 283; p. 3.
- Beery, Isaac N., Jr., Harrisonburg, Va. Abdominal supporter. No. 1,366,897; Feb. 1; v. 283; p. 3.
- Beiber Trunk & Bag Company, The. (See Grube, George F., assignor.)
- Bell, Lorenzo W., assignor to one-half to H. O. Keltner, Carrollton, Mo. Attachment for threshing-machines. No. 1,366,899; Feb. 1; v. 283; p. 4.
- Benish, Frank F., *et al.* (See Helbel, Frank B., assignor.)
- Bennett, Carl, Copenick, near Berlin, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Cleansing with alkali salts of protalbinic and lysalbinic acids. No. 1,367,007; Feb. 1; v. 283; p. 25.
- Bennett, Ray H., *et al.* (See MacDougall, Archibald J., assignor.)
- Benson, Lawrence, Nashua, Mont. Automobile-radiator. No. 1,366,900; Feb. 1; v. 283; p. 4.
- Berg, Frederick A., Chicago, Ill. Flying-machine. No. 1,367,114; Feb. 1; v. 283; p. 46.
- Berger, Samuel, Newark, N. J., assignor to Ferdinand Strauss Inc., New York, N. Y. Wheel-fastening means for mechanical toys. No. 1,367,228; Feb. 1; v. 283; p. 68.
- Bergheimer, Daniel P. (See Maedler, Richard W., assignor.)
- Bernard, Thels F., assignor to F. M. Ehehalt, Detroit, Mich. Mechanical device for grinding two cylindrical machine parts at the same time. No. 1,367,522; Feb. 1; v. 283; p. 127.
- Bernard, Thels F., assignor to F. M. Ehehalt, Detroit, Mich. Mechanical compound grinding head for grinding two cylindrical machine parts at the same time. No. 1,367,523; Feb. 1; v. 283; p. 127.
- Berta, Felix S., assignor to R. B. Hosner, San Francisco, Calif. Folding bed. No. 1,367,173; Feb. 1; v. 283; p. 58.
- Bessesen, Alfred N., Minneapolis, Minn. Syringe. No. 1,367,008; Feb. 1; v. 283; p. 25.
- Best, William J., Detroit, Mich. Stove. No. 1,366,901; Feb. 1; v. 283; p. 4.
- Bestwall Manufacturing Company. (See Armstrong, Morgan K., assignor.)

- Max Ams Machine Company, The. (See Brenzinger, Julius, assignor.)
- Mazzanovich, Anton, Los Angeles, Calif. Combination-clamp. No. 1,367,071; Feb. 1; v. 283; p. 37.
- McAlvay, Budd D., L. S. Hamer, and G. C. Deakins, Anaheim, Calif. Interlocking casing-reducing nipple. No. 1,367,156; Feb. 1; v. 283; p. 54.
- McAuliffe, John W., Pelham, N. Y. Self-stropping double-edged safety-razor. No. 1,367,157; Feb. 1; v. 283; p. 55.
- McAuliffe, John W., Pelham, N. Y. Self-stropping safety-razor. No. 1,367,158; Feb. 1; v. 283; p. 55.
- McAuliffe, John W., Pelham, N. Y. Combined razor and stropper. No. 1,367,159; Feb. 1; v. 283; p. 55.
- McCallum, D. R. (See Hinson, John K., assignor.)
- McClay, Charles E., Los Angeles, Calif. Wind-deflector for vehicles and making the same. No. 1,367,527; Feb. 1; v. 283; p. 128.
- McClurkin, Oak B., Morning Sun, Iowa. Wrench. No. 1,367,407; Feb. 1; v. 283; p. 105.
- McClurkin, Oak B., Morning Sun, Iowa. Wrench. No. 1,367,408; Feb. 1; v. 283; p. 105.
- McConway & Torley Company, The. (See George, Enoch, Jr., assignor.)
- McCrabon, Edward H., Syracuse, N. Y. Puttee. No. 1,367,065; Feb. 1; v. 283; p. 36.
- McDonald, David C., Hammond, Calif. Radial excavator. No. 1,367,160; Feb. 1; v. 283; p. 55.
- McDonald, John U., Decatur, Ill. Making gas. No. 1,367,321; Feb. 1; v. 283; p. 87.
- McDonough, Joseph G., Eau Claire, Wis. Lumber marker and grader. No. 1,367,066; Feb. 1; v. 283; p. 37.
- McFarland, J. C., Company. (See Treiber, Theodore R., assignor.)
- McGuire, Patrick, Superior, Wis. Toilet article. No. 1,367,489; Feb. 1; v. 283; p. 121.
- McIntosh, Burnett, Brooklyn, N. Y., assignor, by mesne assignments, to F. A. Hall & Sons, Davenport, Iowa. No. 1,367,067; Feb. 1; v. 283; p. 37.
- McKinney, William P., Tacoma, Wash. Safety-hook. No. 1,367,270; Feb. 1; v. 283; p. 77.
- McLean, Marrs, Beaumont, Tex. Well-screen. No. 1,367,406; Feb. 1; v. 283; p. 104.
- McMichael, Robert C., Bicknell, Calif. Rod-elevator. No. 1,367,273; Feb. 1; v. 283; p. 78.
- Mechanical Manufacturing Company. (See Keene, George R., assignor.)
- Mercer, Walter F., Grand Rapids, Mich. Device for locating submerged objects. No. 1,367,415; Feb. 1; v. 283; p. 106.
- Meszaros, Janos, East Millsboro, Pa. Chicken-house. No. 1,367,416; Feb. 1; v. 283; p. 106.
- Metropolitan Sewing Machine Corporation. (See Weis, John P., assignor.)
- Meyer, Frank A., Linn, Kans. Automatic trap-nest. No. 1,367,198; Feb. 1; v. 283; p. 63.
- Michelin, André J., Paris, France. Automatic alarm for partially-deflated tires. No. 1,367,490; Feb. 1; v. 283; p. 121.
- Miehle Printing Press & Manufacturing Company. (See Dudley, Edward F., assignor.)
- Miehle Printing Press & Manufacturing Company. (See Henderson, Carl, assignor.)
- Milam, Robert H., assignor to Long Staple Cotton Gin Manufacturing Company, Helena, Ark. Cotton-gin. No. 1,367,491; Feb. 1; v. 283; p. 121.
- Miles, George B., Washington, Ill. Baseball-bat and making same. No. 1,367,492; Feb. 1; v. 283; p. 122.
- Miles, George W., Belmont, Mass. Treating paper with a paraffin. No. 1,367,274; Feb. 1; v. 283; p. 78.
- Miller, George L., assignor to The Gillingham Manufacturing Company, Canton, Ohio. Method of and apparatus for gaging and assorting taper pieces. No. 1,367,199; Feb. 1; v. 283; p. 63.
- Miller, Hans C., Genoa, Nebr. Crank-case breather for internal-combustion engines. No. 1,367,164; Feb. 1; v. 283; p. 56.
- Mills, Herbert S. (See Sandell, Henry K., assignor.)
- Minnicar, George D., et al. (See Bolton, Philip W., assignor.)
- Minnicar, William N., et al. (See Bolton, Philip W., assignor.)
- Minnis, George F., Chicago, Ill. Window-washer's harness. No. 1,366,920; Feb. 1; v. 283; p. 8.
- Mitchell, Bert D., Battle Creek, Mich. Auxiliary tread for motor-vehicle wheels. No. 1,366,921; Feb. 1; v. 283; p. 8.
- Miyagi, Takeo, Waipahu, Honolulu, Hawaii. Bolt and nut. No. 1,367,072; Feb. 1; v. 283; p. 38.
- Mohs, Stanislovas, Racine, Wis. Bed-spring. No. 1,367,275; Feb. 1; v. 283; p. 78.
- Moody, Philip E., et al. (See Hachmann, Frederick, assignor.)
- Moore, Henry B., Liverpool, England. Amusement apparatus. No. 1,367,417; Feb. 1; v. 283; p. 106.
- Morrison Corporation. (See Morrison, William C., assignor.)
- Morrison, John W. (See Sanders, E. J., and Morrison.)
- Morrison, William C., Pittsburgh, Pa., assignor to Morrison Corporation, Dover, Del. Automobile hoisting and tilting apparatus. No. 1,367,073; Feb. 1; v. 283; p. 38.
- Motteau, Antime, Buenos Aires, Argentina. Metallic frame for windows and the like. No. 1,367,418; Feb. 1; v. 283; p. 106.
- Motteau, William C., Philadelphia, Pa. Tank for developing photographic films. No. 1,367,074; Feb. 1; v. 283; p. 38.
- Mudge & Company. (See De Brun, Frank H., assignor.)
- Munter, Charles, New York, N. Y. Combined abdominal support and shoulder-brace. No. 1,367,420; Feb. 1; v. 283; p. 107.
- Munter, Charles, New York, N. Y. Combined abdominal support and shoulder-brace. No. 1,367,421; Feb. 1; v. 283; p. 107.
- Munter, Charles, New York, N. Y. Laced article of apparel. No. 1,367,419; Feb. 1; v. 283; p. 107.
- Murphy, Fred K., A. W. Martin, and L. C. H. Weidman, Indianapolis, Ind. Reclaiming worn car-axles. No. 1,366,922; Feb. 1; v. 283; p. 8.
- Murphy, G. W. J., Company. (See Bourque, David, assignor.)
- Murphy, James A., Philadelphia, Pa. Automobile-lock. No. 1,367,200; Feb. 1; v. 283; p. 63.
- Muscovitz, Lewis, Chicago, Ill. Garment-collars. No. 1,367,493; Feb. 1; v. 283; p. 122.
- Myers, D. D., et al. (See Kelley, Benjamin F., assignor.)
- Myers, F. E., and Brothers. (See Myers, Philip A., assignor.)
- Myers, Philip A., assignor to F. E. Myers and Brother, Ashland, Ohio. Power-head. No. 1,367,075; Feb. 1; v. 283; p. 38.
- Nägelin, Ernst, Basel, Switzerland. Apparatus for the treatment of textile goods in hank form by means of circulating liquids. No. 1,367,494; Feb. 1; v. 283; p. 122.
- Nasmith, John W., Manchester, England. Combing-machine. No. 1,367,076; Feb. 1; v. 283; p. 38.
- Nebel, Charles E., Gladstone, Mich. Wrench. No. 1,367,422; Feb. 1; v. 283; p. 107.
- Neerup, Einar, Chicago, Ill. Hydrometer-syringe. No. 1,367,495; Feb. 1; v. 283; p. 122.
- Negraval, Louis A., Jersey City, N. J. Jewelry-box. No. 1,367,322; Feb. 1; v. 283; p. 87.
- Neuenschwander, Lewis, Los Angeles, assignor to Electric Fruit Marking Co., San Francisco, Calif. Electric fruit-marking machine. No. 1,367,077; Feb. 1; v. 283; p. 39.
- Newton, Charles H., Plainville, Conn. Rocker-arm tool. No. 1,366,923; Feb. 1; v. 283; p. 9.
- Newton, William J., Lynbrook, assignor, by mesne assignments, to J. G. Livingston, Woodmere, Long Island, N. Y. Electric wall-switch. No. 1,366,924; Feb. 1; v. 283; p. 9.
- Nicholls, William H., Brooklyn, N. Y. Molding-machine. No. 1,367,078; Feb. 1; v. 283; p. 39.
- Nicholls, William H., Brooklyn, N. Y. Molding-machine. No. 1,367,079; Feb. 1; v. 283; p. 39.
- Niedergang, Charles, F. P. Stenger, and T. J. Frey, Cincinnati, Ohio. Gas and air mixer. No. 1,367,201; Feb. 1; v. 283; p. 63.
- Norris, Robert, Wytheville, Va. Window-pulley and housing therefor. No. 1,367,276; Feb. 1; v. 283; p. 78.
- Northrup, Elmer C., Oakland, Calif. Box-printing machine. No. 1,366,925; Feb. 1; v. 283; p. 9.
- Nott, Robert J., Victoria, British Columbia, Canada. Heater. No. 1,366,926; Feb. 1; v. 283; p. 9.
- Nowak, Maximilian, Roselle, N. J. Measuring-tool. No. 1,367,423; Feb. 1; v. 283; p. 108.
- Ogden, John E., Mountaineer, N. Y. Bolt-anchorage and forming same. No. 1,367,080; Feb. 1; v. 283; p. 39.
- Ohio Bolt & Blower Company, The. (See Conkley, William E., assignor.)
- Oliver, Robert L., Dorris, Calif. Potato digging and cleaning apparatus. No. 1,367,424; Feb. 1; v. 283; p. 108.
- Olson, Samuel, Chicago, Ill. Elevator-loader. No. 1,367,081; Feb. 1; v. 283; p. 40.
- Osborne, John H., Anderson, Ind. Meat-slicing machine. No. 1,366,927; Feb. 1; v. 283; p. 9.
- Ostberg, Anders J., and A. Kennv, Richmond, near Melbourne, Victoria, Australia. Manufacture of resilient tires. No. 1,367,496; Feb. 1; v. 283; p. 122.
- Oster, Herman W., assignor to The Oster Manufacturing Company, Cleveland, Ohio. Pipe-cutter. No. 1,367,323; Feb. 1; v. 283; p. 87.
- Oster Manufacturing Company, The. (See Oster, Herman W., assignor.)
- Ostwald, Walter, Grossbothen, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Producing ammonium chlorid from fuels. No. 1,367,082; Feb. 1; v. 283; p. 40.
- Otto, Albert S., Bronxville, N. Y. Packing of oblong magnetic objects. No. 1,367,083; Feb. 1; v. 283; p. 40.
- Overbey, Eddie M., Creighton, Mo. Dust-cap for inflating valve-stems. No. 1,367,084; Feb. 1; v. 283; p. 40.
- Owens, Richard L., Minneapolis, Minn. Grain-separator. No. 1,366,928; Feb. 1; v. 283; p. 9.
- Pace, Vara L., Beaumont, Tex. Building-block. No. 1,367,497; Feb. 1; v. 283; p. 123.
- Pacific Folding Box Factory. (See Gruenberg, Raoul J., assignor.)
- Pacific Wann Evaporator Co. (See Wann, John T., assignor.)
- Packer, Alfred H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Combined circuit-breaker and switch. No. 1,367,085; Feb. 1; v. 283; p. 40.



# ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 1ST DAY OF FEBRUARY, 1921.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

- Abdominal support and shoulder-brace. Combined. C. Munter. No. 1,367,420; Feb. 1; v. 283; p. 107.
- Abdominal support and shoulder-brace. Combined. C. Munter. No. 1,367,421; Feb. 1; v. 283; p. 107.
- Adjustable wrench. C. W. Brown. No. 1,367,456; Feb. 1; v. 283; p. 114.
- Adjuster. T. Penwell and H. E. Brown. No. 1,367,426; Feb. 1; v. 283; p. 108.
- Aeroplane. O. J. Abrahamson. No. 1,366,895; Feb. 1; v. 283; p. 3.
- Aeroplane. I. M. Uppercu. No. 1,367,218; Feb. 1; v. 283; p. 67.
- Aeroplane safety device. J. D. Kennard. No. 1,367,483; Feb. 1; v. 283; p. 119.
- Aircraft. M. T. Brush. No. 1,367,295; Feb. 1; v. 283; p. 82.
- Airships. Controlling device for. J. A. Latham. No. 1,366,917; Feb. 1; v. 283; p. 7.
- Alarm: *See*—
- Automatic alarm. Automobile-theft alarm.
- Alloy sheets. Controlling the grain in magnetic. V. B. Browne. No. 1,367,015; Feb. 1; v. 283; p. 26.
- Ammonium chlorid from fuels. Producing. W. Ostwald. No. 1,367,082; Feb. 1; v. 283; p. 40.
- Amusement apparatus. H. B. Moore. No. 1,367,417; Feb. 1; v. 283; p. 106.
- Apparel. Laced article of. C. Munter. No. 1,367,419; Feb. 1; v. 283; p. 107.
- Apron. Rubbing. C. C. Shepard. No. 1,367,281; Feb. 1; v. 283; p. 79.
- Arm, Small. E. A. L. Bourdelles. No. 1,367,453; Feb. 1; v. 283; p. 113.
- Auto signaling device. R. H. Gorsuch. No. 1,367,470; Feb. 1; v. 283; p. 117.
- Automatic lubricator. S. T. Voll. No. 1,367,107; Feb. 1; v. 283; p. 45.
- Automobile attachment for trailers. N. S. and W. A. Snyder. No. 1,367,166; Feb. 1; v. 283; p. 56.
- Automobile-body. W. L. Fry. No. 1,367,247; Feb. 1; v. 283; p. 73.
- Automobile-body. H. C. Maise. No. 1,367,197; Feb. 1; v. 283; p. 63.
- Automobile-bumper. J. B. Mason, Jr. No. 1,367,411; Feb. 1; v. 283; p. 105.
- Automobile direction-signal. H. N. Crain. No. 1,367,355; Feb. 1; v. 283; p. 94.
- Automobile-fenders. Supporting attachment for. W. H. Rapeport. No. 1,366,934; Feb. 1; v. 283; p. 11.
- Automobile footboard. H. L. Wilber. No. 1,367,221; Feb. 1; v. 283; p. 67.
- Automobile hoisting and tilting apparatus. W. G. Morrison. No. 1,367,073; Feb. 1; v. 283; p. 38.
- Automobile-lock. F. Haggett. No. 1,367,381; Feb. 1; v. 283; p. 99.
- Automobile-lock. J. A. Murphey. No. 1,367,200; Feb. 1; v. 283; p. 63.
- Automobile-radiator. L. Benson. No. 1,366,900; Feb. 1; v. 283; p. 4.
- Automobile-signal. L. Bourquin. No. 1,367,175; Feb. 1; v. 283; p. 58.
- Automobile-signal. W. Crosley. No. 1,367,304; Feb. 1; v. 283; p. 84.
- Automobile-signal. E. Hebbeln. No. 1,367,184; Feb. 1; v. 283; p. 60.
- Automobile theft-alarm. E. G. Warner. No. 1,367,337; Feb. 1; v. 283; p. 91.
- Automobile-wheel chock. W. R. Litzenberg. No. 1,367,514; Feb. 1; v. 283; p. 126.
- Automobiles. Locking device for. J. I. Winchell. No. 1,366,992; Feb. 1; v. 283; p. 22.
- Automobiles. Sun and rain shield for. M. C. La Bonte. No. 1,367,152; Feb. 1; v. 283; p. 54.
- Auxiliary jack. N. S. Snyder. No. 1,367,167; Feb. 1; v. 283; p. 57.
- Axle, Tractor. C. W. Parker. No. 1,367,088; Feb. 1; v. 283; p. 41.
- Bag: *See*—
- Handbag.
- Bag-closure. P. Laux. No. 1,367,485; Feb. 1; v. 283; p. 120.
- Ball: *See*—
- Golf-ball.
- Ball bat and making same. Base. G. B. Miles. No. 1,367,492; Feb. 1; v. 283; p. 122.
- Balls. Method of and apparatus for rolling. F. M. Canda. No. 1,367,299; Feb. 1; v. 283; p. 83.
- Band-tightener. S. C. Cary and V. Ragona. No. 1,367,121; Feb. 1; v. 283; p. 47.
- Band-tightener. V. Ragona. No. 1,367,094; Feb. 1; v. 283; p. 42.
- Bar: *See*—
- Glazing-bar. Sickie-bar.
- Barrel-tipper. F. J. Logan. No. 1,367,063; Feb. 1; v. 283; p. 36.
- Barrels. Machine for straightening. W. A. Schmidt. No. 1,367,099; Feb. 1; v. 283; p. 43.
- Battery: *See*—
- Storage battery.
- Battery-plate. A. J. Trigwell. No. 1,367,288; Feb. 1; v. 283; p. 81.
- Bed and seat. Combined. R. Bradshaw. No. 1,367,013; Feb. 1; v. 283; p. 26.
- Bed-bottom fabric. R. Bradshaw. No. 1,367,012; Feb. 1; v. 283; p. 26.
- Bed. Davenport. B. McIntosh. No. 1,367,067; Feb. 1; v. 283; p. 37.
- Bed. Folding. F. S. Berta. No. 1,367,173; Feb. 1; v. 283; p. 58.
- Bed-motion. E. F. Dudley. No. 1,367,466; Feb. 1; v. 283; p. 116.
- Bed-spring. S. Molis. No. 1,367,275; Feb. 1; v. 283; p. 78.
- Belt. Adjustable. T. Jansen. No. 1,367,481; Feb. 1; v. 283; p. 119.
- Belt. Life. W. H. Barker. No. 1,367,225; Feb. 1; v. 283; p. 68.
- Block: *See*—
- Building-block. Testing-block.
- Logging-block.
- Board: *See*—
- Automobile-footboard. Plaster-board.
- Game-board.
- Boiler: *See*—
- Milk-boiler. Vehicle-steam-engine boiler.
- Boilers. Apparatus for vaporizing and burning fuel-oil for steam. C. H. Tondeur. No. 1,366,976; Feb. 1; v. 283; p. 19.
- Bolt-anchorage and forming same. J. E. Ogden. No. 1,367,080; Feb. 1; v. 283; p. 39.
- Bolt and nut. T. Miyagi. No. 1,367,072; Feb. 1; v. 283; p. 38.
- Bomb-release gear. F. Ranken. No. 1,367,095; Feb. 1; v. 283; p. 42.
- Bottles and the like articles. Packing. A. Mackinnon. No. 1,367,069; Feb. 1; v. 283; p. 37.
- Bottles. Combination opening device for. M. Schiano. No. 1,367,432; Feb. 1; v. 283; p. 109.
- Box: *See*—
- Display-box. Jewelry-box.
- Box. H. J. Gaisman. No. 1,367,035; Feb. 1; v. 283; p. 30.
- Box. H. J. Gaisman. No. 1,367,036; Feb. 1; v. 283; p. 30.
- Box-printing machine. E. C. Northrup. No. 1,366,925; Feb. 1; v. 283; p. 9.
- Box-strap. G. G. Gard. No. 1,367,038; Feb. 1; v. 283; p. 31.
- Brake. C. C. Evans. No. 1,367,128; Feb. 1; v. 283; p. 49.
- Bridge. Floating and lifting. A. Blondel. No. 1,367,115; Feb. 1; v. 283; p. 46.
- Brush. Fountain marking. M. M. Shackitt. No. 1,367,433; Feb. 1; v. 283; p. 109.
- Buckle. A. J. Therreault. No. 1,367,215; Feb. 1; v. 283; p. 66.
- Building-block. V. L. Pace. No. 1,367,497; Feb. 1; v. 283; p. 123.
- Buildings. Construction of reinforced-concrete-slab roofs for. J. H. de W. Waller. No. 1,367,289; Feb. 1; v. 283; p. 81.
- Burner: *See*—
- Coal-oil burner. Liquid-fuel burner.
- Gas-burner. Oil-burner.
- Buttering device. E. C. Booth. No. 1,366,902; Feb. 1; v. 283; p. 4.
- Button. Cuff. W. A. Lapinski. No. 1,367,154; Feb. 1; v. 283; p. 54.
- Button. Foldable link. J. L. Herzog. No. 1,367,141; Feb. 1; v. 283; p. 51.
- Cabinet. G. N. Davidson. No. 1,367,358; Feb. 1; v. 283; p. 95.
- Cabinet. R. W. Maedler. No. 1,367,410; Feb. 1; v. 283; p. 105.

- Thread-cutter for looms. E. H. Ryon. No. 1,366,949; Feb. 1; v. 283; p. 14.
- Thread-parting mechanism. R. A. Marshall. No. 1,367,070; Feb. 1; v. 283; p. 37.
- Thread-delivering mechanism. T. J. Hayes. No. 1,367,387; Feb. 1; v. 283; p. 101.
- Threshing-machines, Attachment for. L. W. Bell. No. 1,366,899; Feb. 1; v. 283; p. 4.
- Tie: *See*—  
Metallic railway-tie. Railway-tie.
- Tie device. J. J. Englert. No. 1,367,029; Feb. 1; v. 283; p. 29.
- Tightening device. T. Davis. No. 1,366,904; Feb. 1; v. 283; p. 4.
- Timing device. J. S. Kennedy. No. 1,367,148; Feb. 1; v. 283; p. 53.
- Tire-spreader. C. A. Witham. No. 1,367,446; Feb. 1; v. 283; p. 112.
- Tire treads, Manufacturing pneumatic. B. Darrow. No. 1,367,180; Feb. 1; v. 283; p. 59.
- Tire-valve. M. C. Schweinert and H. P. Kraft. No. 1,366,963; Feb. 1; v. 283; p. 17.
- Tire-vehicle. R. B. Bostwick. No. 1,367,011; Feb. 1; v. 283; p. 25.
- Tires, Automatic alarm for partially-deflated. A. J. Michelin. No. 1,367,490; Feb. 1; v. 283; p. 121.
- Tires, Manufacture of resilient. A. J. Ostberg and A. Kenny. No. 1,367,496; Feb. 1; v. 283; p. 122.
- Tollet-article. P. McGuire. No. 1,367,489; Feb. 1; v. 283; p. 121.
- Tool. H. H. Whitehead. No. 1,366,987; Feb. 1; v. 283; p. 21.
- Tool, Measuring. M. Nowak. No. 1,367,423; Feb. 1; v. 283; p. 108.
- Toothbrush. T. Harrison. No. 1,367,385; Feb. 1; v. 283; p. 100.
- Tonsil-snare. C. R. Storz. No. 1,366,971; Feb. 1; v. 283; p. 18.
- Tool, Rocker-arm. C. H. Newton. No. 1,366,923; Feb. 1; v. 283; p. 9.
- Towel-rack. J. E. Williams. No. 1,367,290; Feb. 1; v. 283; p. 81.
- Toy, Detonating. C. Hofer. No. 1,367,391; Feb. 1; v. 283; p. 101.
- Toy railway. J. H. Bradley. No. 1,367,232; Feb. 1; v. 283; p. 70.
- Toy vehicle. N. H. Anderson. No. 1,367,345; Feb. 1; v. 283; p. 92.
- Toy vehicle. A. B. Foans. No. 1,367,525; Feb. 1; v. 283; p. 128.
- Toys, Wheel-fastening means for mechanical. S. Berger. No. 1,367,228; Feb. 1; v. 283; p. 69.
- Tracks, Support for conveyer. G. Ritchie, Jr. No. 1,366,944; Feb. 1; v. 283; p. 13.
- Tractor. F. J. Hicks. No. 1,367,317; Feb. 1; v. 283; p. 86.
- Trap: *See*—  
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Insect-trap.
- Trap. W. L. Wigington. No. 1,366,989; Feb. 1; v. 283; p. 21.
- Trap-nest, Automatic. F. A. Meyer. No. 1,367,198; Feb. 1; v. 283; p. 63.
- Tray, Drying. J. T. Wann. No. 1,367,443; Feb. 1; v. 283; p. 111.
- Trimmer: *See*—  
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- Truck and fodder-binder, Husking. J. K. Alleman. No. 1,367,344; Feb. 1; v. 283; p. 92.
- Truck, Hand. T. Harris. No. 1,367,316; Feb. 1; v. 283; p. 86.
- Truck, Hand. J. Jewell. No. 1,367,396; Feb. 1; v. 283; p. 102.
- Truck, Tongue. C. A. A. Rand. No. 1,367,518; Feb. 1; v. 283; p. 126.
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- Trousers-support, Concealed. C. A. Buchholz. No. 1,367,235; Feb. 1; v. 283; p. 70.
- Tube-cleaner. A. F. Froussard. No. 1,367,314; Feb. 1; v. 283; p. 86.
- Tubes, Apparatus for making lap-welded. J. H. Matheson. No. 1,367,413; Feb. 1; v. 283; p. 105.
- Tubes, Manufacture of lap-welded. J. H. Matheson. No. 1,367,412; Feb. 1; v. 283; p. 105.
- Tubular-section coupling. J. Schneible. No. 1,366,955; Feb. 1; v. 283; p. 15.
- Tumbler-rinser. E. M. Adams. No. 1,367,342; Feb. 1; v. 283; p. 92.
- Turntable, Automatic. E. J. Sanders and J. W. Morrison. No. 1,367,507; Feb. 1; v. 283; p. 124.
- Two-cycle internal-combustion engine. G. J. Gall. No. 1,367,037; Feb. 1; v. 283; p. 31.
- Type-composing machine. W. Chipperfield. No. 1,367,302; Feb. 1; v. 283; p. 83.
- Typewriting-machine. H. N. Josleyn. No. 1,367,145; Feb. 1; v. 283; p. 52.
- Valve. J. Rothchild. No. 1,367,506; Feb. 1; v. 283; p. 124.
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- Vehicle wheels, Auxiliary tread for motor. B. D. Mitchell. No. 1,366,921; Feb. 1; v. 283; p. 8.
- Vehicle-wheels, Rim for. A. H. Smith. No. 1,367,210; Feb. 1; v. 283; p. 65.
- Vehicles and making the same, Wind-deflector for. C. E. McClay. No. 1,367,527; Feb. 1; v. 283; p. 128.
- Vehicles, Means for suspending endless-track. P. L. Leisse. No. 1,367,060; Feb. 1; v. 283; p. 36.
- Vessels, Apparatus for raising sunken. H. A. Gray. No. 1,367,250; Feb. 1; v. 283; p. 73.
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- Web-replenishing mechanism. E. H. Ryon. No. 1,366,951; Feb. 1; v. 283; p. 14.
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- Welding-machine, Rotary. W. S. Southwick. No. 1,367,212; Feb. 1; v. 283; p. 66.
- Well-screen. M. McLean. No. 1,367,406; Feb. 1; v. 283; p. 104.
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- Wheel-mounting. A. J. Baumber. No. 1,367,006; Feb. 1; v. 283; p. 25.
- Wheels, Making. G. S. Porter. No. 1,367,092; Feb. 1; v. 283; p. 42.
- Window-washer's harness. G. F. Minnis. No. 1,366,920; Feb. 1; v. 283; p. 8.
- Windows and the like, Metallic frame for. A. Motteau. No. 1,367,418; Feb. 1; v. 283; p. 106.
- Windshield-shade. B. H. Pugh. No. 1,367,202; Feb. 1; v. 283; p. 64.
- Wire-fence tool. P. J. Hindmarsh. No. 1,367,516; Feb. 1; v. 283; p. 126.
- Wire or other rope, Cargo-net of. W. F. Goodyear. No. 1,367,249; Feb. 1; v. 283; p. 73.
- Wire rolling and cutting device. A. Sherpitis. No. 1,367,282; Feb. 1; v. 283; p. 79.
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- Wrench. E. W. Bullard. No. 1,367,297; Feb. 1; v. 283; p. 82.
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- Wrench. O. B. McClurkin. No. 1,367,407; Feb. 1; v. 283; p. 105.
- Wrench. O. B. McClurkin. No. 1,367,408; Feb. 1; v. 283; p. 105.
- Wrench. C. E. Nebel. No. 1,367,422; Feb. 1; v. 283; p. 107.
- Yarns in the form of hanks, skeins, or bundles, Machine for dyeing or similarly treating. A. Ashworth. No. 1,367,112; Feb. 1; v. 283; p. 46.