

RECENTLY PATENTED INVENTIONS.

Pertaining to Apparel.

ARM-SCYE BUST-FORM.—C. H. SCOTT, New York, N. Y. The principal objects of the invention are to overcome various objections by providing a form light and comfortable and produce an attractive and symmetrical figure besides providing for the better fitting of outer garments; also, to provide for the escape of heat or air confined between the pad and the body. The scye is so constructed as to full in the deficiency of an undeveloped bust from the shoulder downward in front to the part of the scye underneath the arm.

LADY'S COMB.—W. J. WATSON, Shawnee, Oklahoma Ter. The invention refers to ladies' combs, and particularly to the side combs and back combs which are worn in the hair. It is also applicable to hair-pins. The object of the invention is to produce a comb of this class which is simple in construction and provided with means for preventing its becoming accidentally displaced.

Electrical Devices.

ELECTRICAL APPARATUS FOR SETTING THE POINTS AND SIGNALS ON RAILWAYS.—L. KOTTMAR and R. ZWACK, 86 Lillenstrasse, Munich, Germany. This improvement relates to an apparatus for setting the points and signals on railways by means of electric actuating devices in such a manner that these actuating devices act upon the separate points and signals in succession, so that when an electric switch belonging to a line is closed each actuating device after being properly set closes the circuit of the next. The whole or a portion of the actuating devices belonging to the track are thus automatically set.

Of Interest to Farmers.

PLATFORM LEVELING DEVICE FOR HARVESTERS.—E. R. GORDON and D. R. THROOP, Harrington, Wash. In this instance the invention pertains to a new means for simultaneously raising and lowering the main wheels on the opposite side of a harvester, reaper, or other similar vehicle in order that the body of the vehicle may be maintained in a level position, irrespective of the inclination on a hill upon which the harvester may be used.

Of General Interest.

FILTER.—E. BURT, El Oro, Estado de Mexico, Mexico. In this patent the inventor relates to high-pressure filters for precious-metal-ore slimes, as gold, silver, etc., having among other objects the production of an apparatus of this character of large capacity capable of filtering the slimes expeditiously and at a comparatively low cost.

GUN CLEANER.—C. T. FORBES, Fresno, Cal. The invention has to do more particularly with a form of handle for attachment to the outer or rear end of the cleaner-rod; and the object is to provide a handle adapted to permit free turning or rotation of the rod and the fixedly-attached swab at its inner end with the handle held against turning action.

SCRAPER AND REGULATOR.—J. H. YOUNG and G. B. YOUNG, El Paso, Texas. The invention is an improvement for use in making bricks of ice-cream of different kinds of layers of cream in a suitable mold. The ice-cream scraper and regulator comprises a plate having at its edges a projecting rectangular tongue or tongues and a triangular tongue.

Household Utilities.

COMBINED LOUNGE AND FOLDING BED WITH A CANOPY.—P. P. LAGRANGE, New Orleans, La. The object in this case is to provide a device which will comprise the necessary mechanism to adapt it to be used as a lounge when folded, and also to be easily opened into a complete bed with a canopy, which will be as complete, attractive, and comfortable as the common form of bed which is not constructed to perform any other function.

COMBINED SHAVING MUG AND BRUSH.—G. A. RONEY, Grand Forks, N. D. The invention consists of a cup or mug having a displaceable handle adapting it to normally lie in the mug when not in use and a cap or top to close the mug to keep it free of dust, dirt, or other foreign material. The top carries a brush having an extensible handle, which is also inclosed when the mug and top are in assembled relation.

WATER-STILL.—O. A. NENNINGER, El Paso, Texas. Steam passes into a boiler-pan, thence upwardly into a condensing-chamber, said steam being condensed flows back into the distilled-water pan. Circulation of water in the boiler-pan is maintained, and air to aerate distilled water is admitted, the steam drawing the air into the chamber. Water in the cylinder when heated may be drawn for house uses. Warm water is supplied the boiler-pan from the cylinder. When hot water is drawn from the cylinder a valve opens and cold water from the main forces out the hot. The valve opens likewise when warm water passes from cylinder to boiler-pan. Means provide against entrance of foul air in the chamber and against escape of steam.

NOTE.—Copies of any of these patents will be furnished by Munn & Co. for ten cents each. Please state the name of the patentee, title of the invention, and date of this paper.



HINTS TO CORRESPONDENTS.

Names and Address must accompany all letters or no attention will be paid thereto. This is for our information and not for publication. References to former articles or answers should give date of paper and page or number of question. Inquiries not answered in reasonable time should be repeated; correspondents will bear in mind that some answers require not a little research, and, though we endeavor to reply to all either by letter or in this department, each must take his turn. Buyers wishing to purchase any article not advertised in our columns will be furnished with addresses of houses manufacturing or carrying the same. Special Written Information on matters of personal rather than general interest cannot be expected without remuneration. Scientific American Supplements referred to may be had at the office. Price 10 cents each. Books referred to promptly supplied on receipt of price. Minerals sent for examination should be distinctly marked or labeled.

(10380) P. M. C. says: We desire some cheap adhesive substance that can be used in manufacture of briquettes to contain charcoal and sawdust. A. Coal tar and molasses are the substances used for briquetting, and are both quite cheap.

(10381) B. D. wishes a receipt for a glue that will satisfactorily glue celluloid to wood, such as is used in making draughtsman's tie squares of celluloid and wood. A. A very simple formula recommended for this purpose is to heat glue to boiling, and stir in gradually wood ashes until the consistency is similar to a thick varnish. Use hot.

(10382) C. C. A. says: I have a gas engine cylinder that leaks water through fine holes in the cylinder wall near a boss, the holes evidently being caused by the "draw" of the iron in cooling. Can you suggest any method of dosing these pores solidly enough to stand the heat and pressure of explosion? A. The application of a saturated solution of sal ammoniac in water to the spongy surface will soon rust up the leaky places.

INDEX OF INVENTIONS

For which Letters Patent of the United States were Issued

for the Week Ending

February 5, 1907.

AND EACH BEARING THAT DATE

(See note at end of list about copies of these patents.)

Table listing inventions and their patent numbers, including items like 'Abrading surface to metal, attaching an...', 'Acid derivative, acetylene carbonic, C. Moureu...', 'Advertising card, J. B. Carroll...', 'Air brake, combined automatic and straight, Turner & Wright...', 'Air brake mechanism, automatic, W. McCook...', 'Air moistener or evaporator, J. W. Johnson...', 'Air washer, W. Rogers...', 'Alternator, inductor magnet, L. J. Lepoint...', 'Anchor for ferry boats, M. M. Hoos...', 'Animal mouth opener, A. Seabrant...', 'Artist's plaque, G. Brown...', 'Automatic brake, C. G. Cessairt...', 'Automatic brake, J. P. Lakeman...', 'Automatic sprinkler, C. E. Buell...', 'Automobile cooling systems, fan for, Winton & Anderson...', 'Automobile dust guard, D. C. Collier...', 'Back rest, adjustable steel, L. M. Rich...', 'Bag handle, H. & E. Sanborn...', 'Baker's peel, Fickett...', 'Balls, manufacture of golf, A. B. & J. Macneil...', 'Band cutter and feeder, W. T. Madill...', 'Bath apparatus, valve operating mechanism for shower, T. F. Kewley...', 'Bathing apparatus, W. H. Cloud...', 'Battery, F. A. Decker...', 'Battery cell, H. Gernsbach...', 'Battery element, F. A. Decker...', 'Beater, J. Husser...', 'Bed brace, W. W. Lockett...', 'Bed spring and mattress, invalid's, E. B. Preston...', 'Bedstead, F. G. Gale...', 'Bedstead guard rail, C. E. Ude...', 'Bedstead joint, Higbee & Schenck...', 'Beef shaving or slicing apparatus, electromechanical, F. H. Wurzbacher...', 'Bell, electric, H. E. Reeve...', 'Belt, A. Reznicek...', 'Belt splicing implement, F. M. Linderman...', 'Belt support, A. M. Harris...', 'Bevel, rafter and polygon, A. O. Calhoun...', 'Bicycle seat and luggage carrier, combined, Paterson & Pasley...', 'Bin, M. W. Coalbaugh...', 'Binder, C. G. Eeden...', 'Bit, See Cutting bit.', 'Blowpipe and soldering attachment, combined, P. P. Nungesser...', 'Boat, foldable or collapsible, I. O. Perling...', 'Boiler construction, C. Kreeschell...', 'Boiler flue cleaner, S. McAdoe...', 'Boiler gage, automatic, D. G. Cameron...', 'Bolting machine driving mechanism, H. O. Bowsman...', 'Book, file, temporary binder, etc., loose leaf, A. Myers, et al.', 'Bottle, non-refillable, P. J. Leonard...', 'Bottle washing machine, F. N. Young...', 'Bottles and similar articles, apparatus for cleaning, E. Weymar...', 'Bottles and the like, cleaning, E. Weymar', 'Bracelet, J. Bulova...', 'Bracelet, E. F. Wilde...', 'Bracelet, F. E. Crain...', 'Bracelet, W. Wallenthin...', 'Brake shoe, E. Dettelbach...', 'Breech leading mechanism, H. T. J. Thronsen...', 'Brick kiln, D. P. Guise...', 'Brick making device, ornamental, M. N. Grant...', 'Brick molding machine, T. G. Jensen...', 'Bridge structure, J. P. Nikesew...', 'Briquet making machine, E. D. Misner...', 'Broom, N. Villalaz...

Table listing inventions and their patent numbers, including items like 'Brush or mop holder, E. E. Masters...', 'Brush, rotary, D. F. Broderick...', 'Brushes, making, J. Morrison...', 'Buckle, I. Blum...', 'Building block molding machine, S. H. Rickard...', 'Building blocks, P. Olson...', 'Burial casket, drop front, W. H. Lawson...', 'Button, detachable, Z. M. Leger...', 'Cable, aerial, G. Strambini...', 'Cable cutting device, C. Petrie...', 'Calculating machines, adjusting lever arrangement for, F. Trinks...', 'Calendar rollers for producing embossed or raised patterns, J. Kleinewefers...', 'Camera, W. F. Folmer...', 'Camera shading hood, J. D. Gardiol...', 'Can closure, A. L. Caprini...', 'Candy working machine, F. H. Richards...', 'Cane straw cutting machine, sugar, J. M. Callejas y Becerra...', 'Car and locomotive, electric, C. de Kande...', 'Car brake mechanism, tram, G. J. Conaty...', 'Car construction, E. I. Dadds...', 'Car coupling, automatic, O. F. Richter...', 'Car door safety device, Hepper, A. Christiansen...', 'Car dumping apparatus screen, C. A. Fey...', 'Car, electric tram, G. J. Conaty...', 'Car frame, railway, W. F. Kiesel, Jr.', 'Car gondola, E. I. Dadds...', 'Car grain door, railway, N. H. Conger...', 'Car loader, Kenner & Felkel...', 'Car, metallic gondola, E. I. Dadds...', 'Car sill and bolster construction, railway, E. I. Dadds...', 'Car underframe, metallic, E. I. Dadds...', 'Cars, bellows fold coupling for vestibule, E. L. Perry, Sr. & Jr.', 'Cars, circuit closing mechanism for indicators on, T. W. Small...', 'Cars, steel stake for, E. I. Dadds...', 'Carburetor, E. L. Mueller...', 'Carburetor, V. C. Severance...', 'Carburetor, J. H. Schrader...', 'Carrier, See Hay carrier.', 'Castings, twin cupola process of making semisteel, J. C. Davis...', 'Cement block reinforced, E. J. Brooks...', 'Chair, C. W. Heiber...', 'Cheese cutter, L. Swank...', 'Chocolate coating machine, H. C. Remmers', 'Chuck, J. Pearson...', 'Cigarette former, R. Hoffmann...', 'Circuit catching device, electrical system for, in conjunction with the same, A. H. Graves...', 'Circuit closer, automatic, L. Charbonneau...', 'Clasp, W. H. Williamson...', 'Cleaning cylinder, rotary, W. M. Krickbaum...', 'Clock winding mechanism, self-winding electric, H. W. Porter...', 'Cloth pressing buck, J. Ecker...', 'Cloth pressing machine buck, J. Ecker...', 'Clothes line holder, L. Willour...', 'Clutch, friction, A. Master...', 'Clutch operating mechanism, J. S. Petrick', 'Clutch operating mechanism, C. W. Hamann...', 'Cook, automatic steam and hot water safety, J. A. Frey...', 'Cook for locomotives, cylinder, E. J. Ferris', 'Coffee, method of improving, A. E. B. Gram...', 'Coin holding and delivering machine, J. W. Meaker...', 'Coin register, L. J. Burdick...', 'Coke discharging apparatus, L. Albrecht...', 'Coke drawing machine, M. F. Stunkard...', 'Collar, horse, W. Estes...', 'Collar shaping attachment, Currier & Leitschuh...', 'Collar shaping machine, Currier & Leitschuh...', 'Coloring matter, aze, Kahn & Kethe...', 'Column, J. Lally...', 'Column support, T. F. McCarthy...', 'Combination lock, J. W. Raymond...', 'Compound engine, W. A. Webster...', 'Compression stop and waste, A. C. Schuermann...', 'Concrete and like material, reinforcing bar for, S. E. Williamson...', 'Concrete mixer, G. E. McArthur...', 'Concrete mixer, E. E. Jackson...', 'Condiment holder, compound, L. B. Parker.', 'Conveyer, Moresus & Jones...', 'Conveyer, J. A. Jamieson...', 'Conveyer for excavating, I. J. Smith...', 'Cooker, steam, C. E. Swartzbaugh...', 'Corner shield and caster, combined, A. J. H. Kubsiek...', 'Cotton chopper, H. R. Hurst...', 'Cotton chopper and cultivator, combined, Robertson & Jones...', 'Cotton chopping and scraping machine, J. Nelson...', 'Cotton gathering apparatus, J. F. Schaughnessy...', 'Couch, folding, J. Feldman...', 'Counterboring tool, V. Bail...', 'Crane, overhead traveling, C. L. Taylor...', 'Crank joint, double, W. L. Morrow...', 'Crushing and pulverizing machine, J. Ancei', 'Cultivator attachment, H. O. Pope...', 'Cultivator, tongueless, C. E. Macbeth...', 'Curtain pole, G. Gerbeiser...', 'Cuspidor, J. Knapp...', 'Cutter head, E. S. Shimer...', 'Cutting apparatus, A. G. Gann...', 'Cutting bit, eccentric, Tembrangel & Schunder...', 'Dam, collapsible, W. W. Jones...', 'Dam crest, automatically movable, W. R. Davis...', 'Dental bur and excavator, W. Homann...', 'Derailer, S. W. Hayes...', 'Derrick, farm, J. W. Price...', 'Derrick, loading, N. H. Nelson...', 'Dipper, C. F. Smith...', 'Disinfecter for water closets, W. H. Ermentrout...', 'Disintegrating amorphous bodies, E. G. Acheson...', 'Display box, C. C. Allen...', 'Display box, C. C. Rabn...', 'Display package, H. C. Schultz...', 'Display rack, E. B. Westen...', 'Display rack, A. B. Losee...', 'Display rack, extensible, C. K. Hurd...', 'Distilling apparatus, H. A. Abendroth...', 'Deck, W. E. Overton...', 'Door for fire departments and opener therefor, folding, Hale & Fox...', 'Door lock, W. Fessler...', 'Door, rotating, M. C. Gage...', 'Door, securer, E. R. Fuchs...', 'Doors, windows and the like, fastener for, E. W. F. Sachse...', 'Draft equalizer, H. C. Horn...', 'Drawer, G. W. Andress...', 'Drier, See Sawdust drier.', 'Drilling machine, C. Ridderhof...', 'Dumping apparatus, automatic, R. Z. McCoy...', 'Dust pan, folding, Delaney & Lawson...', 'Duster, feather, J. E. Sneyly...', 'Dye, aze, Dressel & Kahn...', 'Dye, aze, Dressel & Osbeck...', 'Dye, green sulfur, A. Laska...', 'Dynamo machines, parallel running of, Parsons & Stoney', 'Easel, C. R. Hoag...', 'Eggs, cream, vegetables, etc., beater, mixer, and masher for, W. Sturma...', 'Electric heater, A. N. Anderson...', 'Electric lights, producing, P. C. Hewitt...', 'Electric machine, dynamo, M. C. A. Lator...', 'Electric motor, A. T. MacCoy...', 'Electric motors, generators, and other apparatus, operating, R. D. Mershon...', 'Electric motors, ventilation of, G. Gibbs.', 'Electric signal, C. L. Krum...', 'Electric switch, automatic, W. F. Irish...', 'Electric time switch, automatic, L. C. Derland', 'Electric tram system, O. J. Davy...', 'Electrical contact apparatus, J. C. Boyd...