(27) R. H. S. asks: 1. How can I dissolve common beeswax so as to mix with hot water? A. Wax is soluble in oil of turpentine, benzole, etc. An emulsion maybe obtained by violently agitating these solutions with hot water. Wax cannot be made soluble in water. 2. What book is the best to get on training and athletics? A. See our advertising columns for the names of book dealers whom you should address.

MINERALS, ETC.—Specimens have been received from the following correspondents, and examined, with the results stated:

W. E. H.—1 and 4 Quartzose rock, probably auriferous. 2. Galena carries a little silver. 3. Iron pyrites.—O. M S., R. C., M T. H. W., and H. S.—Your minerals have not yet come to hand.—J. J. T.—Limestone containing iron pyrites of no value.—J. A. T.—It is celestite—strontium sulphate.—S. T.—1. An impure fluorspar. 2. Gypsum—lime sulphate.—A. L. B.—It is beryl —$3BeO,Al_2O_3,4SiO_3$.—E. B. B.—Biotite (hexagonal mica).—G. S. McC.—1. Calcite—lime carbonate. 2. Dolomite—magnesian limestone.—3. Mica schist. 4. Zinc blende—sulphide of zinc and iron.—S. W. W.—1. Not corundum but magnetite—a valuable iron ore. 2. Impure pyrolusite—oxide of manganese.—A. St. J., Jr.—Galena (lead sulphide) with chalcopyrite in quartzose; probably carries a small quantity of silver. We have several samples of minerals, etc., bearing no mark by which we can identify their senders.

COMMUNICATIONS RECEIVED.

On Conservation of Energy. By H. S. B.
The Bell Telephone Considered as an Induction Coil.
The Chemistry of Electricity. By W. H. G.
On Experiments in Magnetism. By E. P. T.
On Caving in of Mines. By D. E. H.

[OFFICIAL.]

INDEX OF INVENTIONS

FOR WHICH

Letters Patent of the United States were Granted in the Week Ending

June 29, 1880,

AND EACH BEARING THAT DATE.

[Those marked (r) are reissued patents.]

A printed copy of the specification and drawing of any patent in the annexed list, also of any patent issued since 1866, will be furnished from this office for one dollar. In ordering please state the number and date of the patent desired, and remit to Munn & Co., 37 Park Row, New York city. We also furnish copies of patents granted prior to 1866; but at increased cost, as the specifications not being printed, must be copied by hand.

Aging liquors, J. M. Morrison 229,269
Air compressor, H. Richmann 229,468
Air medicating apparatus, H. R. Fowler 229,393
Air purifying apparatus, F. A. Bruns 229,374
Amalgamator, A. V. Trust 229,498
Artist's board, E. F. French 229,244
Axle, carriage, F. D. Bliss 229,364
Baby carrier, H. Behr 229,233
Bag for packing and storing, J. H. Preater 229,333
Baking device, W. H. Henderson 229,314
Bale tie, wire, L. E. Evans 229,392
Barrel swing, J. Cummins 229,306
Beach seat, G. H. Chatterton 229,378
Bed, camp, T. J. Joslin 229,421
Bed rest, invalid, J. V. R. Towers 229,286
Bed, spring, O. S. Foster 229,243
Bedstead, invalid, L. Prince 229,460
Beehive, W. S. Blaisdell 229,362
Belt fastening, A. Schuhknecht 229,278
Belt for harvesters, etc., elevator, G. H. Raymond 229,275
Bolts, holder for galvanizing, W. P. Breeding 229,366
Boring, sawing, grinding, and rabbeting machine, combined, H. Boerstler 229,234
Bosom board, A. P. Ryan 229,475
Bracelet, C. P. Bishop 229,360
Bracelet, Riley & Freer 229,276
Bretzels previous to baking, apparatus and process for preparing, W. Lampert 229,320
Brick machine, W. L. Gregg 229,247
Bridle, H. Hartman 229,405
Brush making machinery, C. A. Watkins 229,289
Bucket, dinner, G. K. Shryock 229,480
Bullets, paper patch or case for, H. W. Mason 229,327
Button and stud, F. P. Barney 229,356
Button and stud, P. Laroussie 229,428
Button or stud, E. Dobell 229,240
Button, separable, E. S. Dodge 229,388
Buttons from plastic material, manufacture of, P. L. Sylvester ..... 229,490 to 229,494
Cans, swinging, F. C. Wilson 229,293
Car brake, Wohlfarth & Wakefield 229,510
Car coupling, R. B. Eubank, Jr 229,241
Car coupling, J. F. Gross 229,400
Car coupling, Hathaway & Myers 229,408
Car coupling, A. G. Hohenstein 229,411
Car coupling, R. C. Wofford 2 9,511
Car door, grain, W. A. McClintock 228,440
Cars, lever for moving, O. B. Blakeslee 229,363
Carbureter, G. Westinghouse, Jr 229,346
Carpet sweeper, W. J. Drew 229,389
Carpet tacker, S. S. Grannis 229,397
Carriage top joint, N. L. Fox 229,312
Cartridge loading implement, J. H. Barlow 229,301
Caster, furniture, C. T. Schoen 229,478
Casting metal, J. Duff 229,308
Casting printing rolls for graining woodenware, manufacture of patterns for, D. H. Wilder 229,508
Celluloid and other plastic compositions or substances, machine for grinding and mixing, J. Schmerber *et al* 229,477
Check rower, S. R. Allee 229,350
Churn dasher, J. M. Teasdale 229,496
Churn power gearing, J. H. & E. R. Elmer 229,391
Cloth finishing machine, D. C. Sumner (r) 9,265
Cloth, instrument for turning edges of, A. Y. Moorefield 229,447
Coal box and fire iron holder, A. F. Tripp (r) 9,267
Coffee pots, etc., manufacture of, G. H. Simmons 229,482
Colter, J. Clayton 229,381
Copy holder, J. S. B. Patterson 229,453
Cooking vessel, J. R. Noble 229,450
Cot, folding, B. Van Dyke 229,501
Crochet needle, E. P. Haff 229,402
Cuff supporter, F. W. Libby 229,324
Cultivator, cotton, R. A. Johnson 229,318
Dentist's and barber's chair, A. Abel 229,227
Diagram sheet, perspective, E. M. Hamilton 229,404
Dish washer, B. J. Howe 229,413
Door, tilting, G. Wagner 2 9,502
Dwelling house, T. Hurley 229,416
Egg beater, T. W. Brown 229,372
Elbow joint, J. W. Orphy 229,331
Electric lights, carbon for, Sawyer & Man 229,335
Electric switch, Sawyer & Man 229,476
Electric switch board, T. A. Watson 2 9,345
Elevator bucket, A. Charles 229,235
Fabric, D. C. Sumner (r) 9,266
Fan, H. Birckenstadt 229,361
Fan, F. O. Horstmann 229,415
Fan, fly, S. G. Stoddard 229,337
Faucet, automatic, T. H. Walker 229,503
Feather renovator, O. C. Monroe 229,268
Fence, H. Hill 229,315
Fence brace, J. M. Fleming 229,311
Fence post and gate hinge, combined, J. Cunningham 229,385
Fertilizer dropper, D. B. T. Walton 229,504
Fibers, treating pine leaves and other vegetable, G. J. Gregerson 229,248
Filter, reversible, J. A. Crocker 229,384
Firearm, breech-loading, D. M. Lefever 229,429
Firearm sight, F. W. & G. Freund 229,245
Fire extinguisher, C. T Holloway (r) 9,271
Fish, preservation of salted cod, P. H. Brink 229,368
Fruit and lard press, E. D. Greer 229,398
Fruit crusher, J. Lamont 229,425
Furnace grate, steam boiler, J. L. I. Knox 229,319
Gas burner, H. W. Merritt 229,444
Gas generator for hydrocarbon furnaces, A. E. Watkins 229,344
Gas, process and apparatus for manufacturing hydrogen, C. M. T. Du Motay 229,339
Gas, process and apparatus for producing hydrogen, C. M. T. Du Motay 229,338
Gas, production of hydrogen, C. T. Du Motay 229,340
Gas regulating burner, G. J. Hickey 229,409
Gate, Hollinger & Flinner 229,412
Gilding process, Laurense & Matzka 229,427
Glass cutter, revolving, B. F. Adams 229,228
Glass plate cleaner, C. F. Linscott 229,430
Glove, J. M. Chanut 229,377
Grain, and simultaneously purifying the products thereof, mode of and apparatus for reducing, G. Milbank 229,445
Grain binder, A. Goodyear 229,396
Grinding machine, H. Hammond 229,250
Grub and stump puller, J. J. Marshall 229,437
Gun lock, W. N. Crabtree 227,383
Handle for satchels, bags, etc., E. Simon 229,481
Harness hook, J. B. & M. J. Witter 229,348
Harrow, M. M. McDirmit 229,265
Harrow, rotary, H. H. Monroe 229,267
Harrow, rotary and drag, P. R. Weatherford 229,505
Harvester, H. A. Adams (r) 9,268
Harvester rake, P. Thompson 229,284
Harvester sickle bar, J. D. James 229,417
Hat, ventilating, R. Ray 229,464, 229,466
Hatch closer, automatic, S. E. Stokes 229,486
Hay loader, Richards & Brandenburg 229,469
Hay rake, horse, W. Adriance 229,349
Hay ricking and loading device, J. E. Kirk 229,424
Heel trimming machine, J. Langlois 229,426
Horse power for gins, etc., W. H. Harvey 229,407
Hub attaching device, W. Baker 229,353
Ink well, J. C. Latsbaugh 229,200
Insect destroying apparatus, W. H. Anderson 229,230
Insect destroying apparatus, L. T. Jones 229,317
Knitting machine, O. Twombly 229,288
Knitting machine for manufacturing fabrics for mattresses, etc., M. Townsend 229,487
Lacing hook, sheet metal, C. I. Humphreys 229,253
Ladder, extension, C. P. Rood 229,472
Lamp, electric, Fuller & Mackintosh 229,246
Lamp, miner's, J. A. Anton 229,351
Lantern, J. W. Orphy 229,330, 229,452
Latch, S. H. Wheeler 229,347
Lifting jack, F. S. Hartzell 229,406
Lightning rod, J. J. Cole 229,382
Liquid cooler for cooling liquids under pressure, E. Bigelow (r) ..... 9,272 to 9,274
Locomotive chair, O. Unzicker 229,500
Loom, J. C. Duckworth (r) 9,270
Loom shuttle operating mechanism, F. H. Davis 229,238
Magneto-electric machines, commutator for, N. S. Keith 229,255
Mail bag, Bennett & Trenbath 229,358
Marking and slitting gauge, C. Kinney 229,258
Measure, wooden, J. Armanet 229,231
Measures, adjustable gauge for liquid, T. F. Longater 229,431
Meat, etc., fabric for packing, F. Rohe 229,471
Mechanical movement, J. E. Underwood 229,295
Milk cooler, A. R. Brown 229,373
Milk cooler, W. E. Lincoln 229,262
Milk cooling apparatus, E. A. Roth 229,474
Musicchart, J. W. Chambers 229,379
Music leaf turner, A. Heilprin 229,313
Music stand, J. W. Pepper 229,271
Musical instruments, marking the keys of key boards for, J. B. D. Black 229,365
Nailing machine, G. McKay 2 9,412
Necktie, J. H. Reynolds 229,334
Necklace fastening, L. L. King 229,257
Nickel depositing solution, J. Powell 228,274
Oils to buildings, apparatus for supplying hydrocarbon, J. S. Hull 229,316
Open hearth furnace, W. L. McNair 229,443
Ore concentrating pan, E. W. Lyon 229,263
Ore crusher and pulverizer, J. T. Davis 229,387
Ore washer, S. P. Speers 229,281
Ores, desulphurizing, H. F. Williams 229,509
Organ, reed, J. C. Briggs 229,369
Organ valves, spring for, J. C. Briggs 229,370
Padlock, C. Pease 229,332
Paint composition, G. Rossi 229,478
Paper, converting straw into bleached, J. Kauffmann 229,254
Paper folding machine, G. E. Jones 229,419
Paper hanger's table, W. Trilk 229,497
Paper, etc., machine for folding and cutting, G. E. Jones 229,420
Paper pulp, preparing wood for making, J. Davy, Jr. 229,307
Paper tubes, machinery for making, M. Young 229,296
Parer, apple, H. H. & I. A. Hebbard 229,251
Pattern plates, making, G. Woolnough 229,294
Pen, fountain, A. T. Cross 229,305
Pen, stylographic fountain, F. J. Seybold 229,336
Pencil sharpener, F. M. Livingston 229,323
Petroleum, etc., refining, J. H. Alexander 229,297
Photo-negative plates, apparatus for retouching, K. T. Pihlgren 229,272
Piano and organ indicator, D. D. Tracy 229,287
Pile driver, J. W. Putnam 229,461, 229,462
Plaiting machine, G. W. Kendall 229,423
Planter, corn, J. K. Voorhees 229,343
Planter, hand corn, C. B. Arnold 229,300
Planters, fertilizer distributer attachment for, A. N. Gabel, Sr 229,334
Pleating fabrics, machine for, J. J. Scholfield 229,479
Plow, J. L. Brinley 229,367
Plow, G. A. De Long 229,239
Plow, Z. R. Percefull 229,455
Plow, D. Stanchfield 229,484
Plow carriage, sulky, L. Cahill 229,375
Potassium sulphate from kainit, manufacture of, C. N. Hake 229,249
Precious stones, paste, or composition of glass, real or imitation, F. E. Meyer 229,328
Printing machine inking fountain, J. X. Browne 229,303
Printing press reversing mechanism, C. Potter, Jr. 229,273
Printing surfaces, producing plate, P. H. Mandel 229,435
Propeller, screw, L. Perkins 229,270
Pump rod adjuster for oil wells, H. Balliet 229,354
Railway rail, F. Hoffmann 229,410
Railway signal, electric, Leblanc & Loiseau 229,321
Railway signal, electric, C. D. Tisdale 229,285
Railway tracks, apparatus for laying, T. Adams 229,229
Razor strop, J. R. Torrey 229,342
Refrigerator, C. H. Saybolt 229,277
Rendering fat, apparatus for, Miller & Gross 229,446
Rivet or eyelet setting machine, Platt & Bradley 229,459
Rock drill, L. B. Stone 229,485
Rowlock, M. F. Davis (r) 9,269
Sash fastening, C. H. Nye 229,451
Saw, drag, M. B. Swindell 229,488
Seeding machine, J. L. McCall 229,439
Sewing machine, broom, C. E. Lipe 229,322
Shank making machine, E. M. Marston 229,438
Sheet metal strips, die for edging, E. E. Johnson 229,418
Shell, explosive, G. W. Turner 229,499
Shingle sawing machine, E. D. Greer 229,399
Shipping can, T. K. Webster 229,507
Shirts, connecting neck bands, yokes, and cuffs to, C. Barns 229,232
Shoe, J. A. Weaver 229,290
Shoe box indicator, L. D. Cooley 229,236
Shoe nail, E. S. Caswell 229,376
Shoe nails, making, H. F. Whidden 229,292
Sifter, ash, E. M. Brewster 229,371
Skirt supporter, Smith & Nall 229,483
Snow from railways, apparatus for removing, D. M. McMaster 229,266
Soda from spent liquors after treating vegetable fiber, recovering, Markle & Jordan 229,264
Soda water, etc., draught tube for drawing, W. P. Clark 229,304
Speed indicator and recorder, F. Petri 229,456
Spinners' staples, cleaning and opening, S. D. Keene 229,256
Square, try, L. S. Starrett 229,283
Stamp, canceling, G. D. Spooner 229,282
Steam boiler, G. H. Babcock *et al* 229,352
Steam machinery lubricator, G. H. Flower 229,242
Stereotype plate holder, F. Wesel 229,291
Stocking, H. J. Griswold 229,401
Stove pipe joint fastener, H. M. Wells 229,506
Stoves, vapor burner for, D. E. Bangs 229,355
Street sweeper, W. B. Dunning 229,390
Sun shade, laborer's, R. Ray 229,465
Swing, W. F. Phillips 228,457
Tape, etc., holder, E. P. Haff 229,403
Tea kettle, W. S. Withers 229,512
Telegraph conductors, underground conduit for, R. B. Lamb 229,259
Telegraph relay, G. M. Hopkins 229,414
Telephone call register, C. J. Bell 229,302
Telephone call register, S. Tainter 229,495
Telephone circuit switch, Anders & Watson 220,299
Telephone lines, signal box for, See & Gray 229,279
Telephone systems, individual signaling apparatus for district, Anders & Watson 229,298
Telephone, transmitting, L. W. Sutton, Jr 229,489
Thill coupling, J. A. Fairbanks 229,310
Thill coupling, D. T. Robinson 229,470
Thill support, J. A. Beamisderfer 229,357
Tobacco, process and machine for drying, Lottier & Perrigo 229,434
Tray, C. Remhof 229,467
Trimming or edging, pointed, J. H. Emmerich 229,309
Truck, hand, M. Johnson 229,422
Type writers, finger guide for, A. M. Da Costa 229,386
Type writing machine, J. H. Phipps 229,458
Umbrella support, J. H. Gordon 229,395
Urinal mat, E. J. Mallett, Jr 229,436
Valve, balanced puppet, Tilden & Guerber 229,341
Vapor burner, W. R. Park 229,454
Vehicle running gear, A. H. Crawford 229,237
Vehicle running gear, C. M. Murch 229,329
Vehicle spring, E. C. Lefferts 229,261
Velocipede, railway, E. K. Hill *et al* 228,252
Vise, N. E. Lovejoy 229,432
Waffle iron, Selden & Griswold, Jr 229,280
Wagon jack, J. Charles 229,380
Washing machine, W. H. Long 229,433
Washing machine, S. C. McCullough 229,441
Water closet bowls, flushing device for, T. Maddock 229,326
Wells, tool for extracting tubular casings from oil, J. H. Luther 229,325
Whiffletree, safety, B. J. Quattlebaum 228,463
Wire stretcher, G. Nicholson 229,449
Wrench, J. C. Beeks 229,359
Zinc or white lead fumer, separating and condensing, S. Murrell 229,448

DESIGNS.

Carpet, H. Horan 11,831
Carpet, H. Nordmann 11,832, 11,833
Carpet, G. W. Piggott 11,834
Picture or mirror frame, J. R. Ritchie 11,835
Types, font of printing, J. Herriet 11,830
Types, font of printing, H. Ihlenburg 11,836, 11,837

TRADE MARKS.

Cigars, Straiton & Storm 7,952
Medicinal preparations, H. A. Cassebeer, Jr 7,953
Organs, pianos, and melodeons, G. P. Bent 7,958
Tobacco, chewing and smoking, Cullingworth & Ellison 7,957
Tobacco, smoking, Wellman & Dwire 7,955, 7,956
Yeast, compressed, G. K. Anderson 7,954

English Patents Issued to Americans.

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Ball castors, L. A. Aspinwall, Albany, N. Y.
Button, T. L. Snyder, Montclair, N. J.
Button, E. Shrier, San Francisco, Cal.
Berth for ships, J. C. Thompson, Roslyn, N. Y.
Corsets, M. K. Bortree, Jackson, Mich.
Coupling link for railway cars, A. Middleton, Phila., Pa.
India-rubber, manuf. of, H. Gerner, New York city.
Liquor, aging, A. L. Wood, Boston, Mass.
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Turning lathe, J. Hill, Columbus, Ga.
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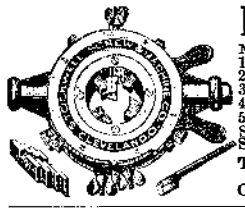

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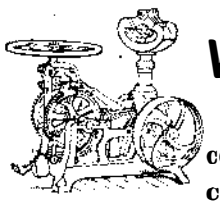

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