

(75) J. & J. T. say, in reply to J. C. & Co., as to the inclination of a bolting reel: At the Millers' National Convention in St. Louis, Mo., June, 1874, we learned that a fall of 1 in 48 always gave the best results.

S. A. T. asks: How can I make a fugitive ink that will disappear in two days after being written?—T. C. H. asks: How can I make an easily flowing ink for drawing on zinc plates, so as afterwards to etch the drawings with muriatic acid?—E. P. M. asks: How can I tan and color beaver skins?—L. M. asks: 1. Can you give me a good rule for getting the length of a carriage axle from shoulder to shoulder before welding, supposing the hub of the wheels to be 6 1/2 inches long, and the track of the wheels 4 feet 7 inches? 2. Please give me a rule for setting axles.—J. F. E. asks: What is put in soap to keep it from shrinking in drying?

COMMUNICATIONS RECEIVED.

The Editor of the SCIENTIFIC AMERICAN acknowledges, with much pleasure, the receipt of original papers and contributions upon the following subjects:

- On the Generation of the Wicked. By T. W. C., and by A. S.
On the Sagacity of the Partridge. By J. K.
On Glue as a Healing Remedy. By J. J. B.
On Honey. By A. L. F.
On Amalgamating the Precious Metals. By J. T.
On a Mammoth Skeleton. By A. R.
On a Lunar Phenomenon. By H. M. S.
On the New Rule at the Patent Office. By J. McC.
On the Slide Valve. By J. T. H.
On Squaring Numbers. By E. T.
On Spiritualism. By F. H. R.
On Small Steam Engines. By W. C. D.
On a Mathematical Fact. By E. H. W.
On the Human Will. By W. L. S.

HINTS TO CORRESPONDENTS.

Correspondents whose inquiries fail to appear should repeat them. If not then published, they may conclude that, for good reasons, the Editor declines them. The address of the writer should always be given.

Enquiries relating to patents, or to the patentability of inventions, assignments, etc., will not be published here. All such questions, when initials only are given, are thrown into the waste basket, as it would fill half of our paper to print them all; but we generally take pleasure in answering briefly by mail, if the writer's address is given.

Hundreds of enquiries analogous to the following are sent: "Who publishes books on dressing and coloring furs, and on bleaching wool? Who sells magnesia and chloride of magnesium? Who makes machines for cutting thin stuff off round logs while the latter revolve? Who sells the best steamer for laundry purposes? Who makes steel castings? Who sells the best gage cocks, etc.? Are there glass-lined iron pipes in the market? Who makes engines suitable for boats 4 feet long?" All such personal enquiries are printed, as will be observed in the column of "Business and Personal," which is specially set apart for that purpose, subject to the charge mentioned at the head of that column. Almost any desired information can in this way be expeditiously obtained.

[OFFICIAL.]

INDEX OF INVENTIONS

FOR WHICH Letters Patent of the United States were Granted in the Week ending February 16, 1875, AND EACH BEARING THAT DATE. [Those marked (r) are reissued patents.]

Table listing inventions and patent numbers, including items like Advertising apparatus, Alarm and stamp, Amalgamator, Annunciator, Bale tie, Ballot box, Bank check, Barrel roller, Bed bottom, Bedstead, Beehive, Bill file, Bird house, Boiler, Bolt work, Bolts, Boots, Box, Brick machine, Bricks, Broom, Broom head, Bullet patching machine, Bustle, Butter packages, Can opener, Cans, Canopy frame, Car axle, Car coupling, Car spring, Car starter, Cars, Carding machine, Carding machine feed, Carriage, Carriage seat, Carriage shackles, Cartridge case, Carts, Casting scale levers, Chair, Chair, child's walking, Chuck, Churn, Cigar box, Cigar packing implement, Clothes dryer, Clothes wringer, Cock, Cock and valve, Cock, self-closing hopper, Cock, stop, Compound implement, Copper, Corn cutter, Corn sheller, Cornice, Corset, Cranberry separator, Culinary vessel, Cultivator, Curtain fixture, Dash board, Dental reflector, Deodorizer, Drag, Drawing board, Drill, rock, Drill, rock, s. Ingersoll, Drilling machine, Drop light, Dryer for refined sugar, Ejector, Elevator, Engine, Engine compound, Engine valve gear, Engines, Eyeletting machine, Faucet, Faucet, A. Pfund, Faucet, T. Tully, Fence, File cutting machine, Fire escape, Flower maker's cutting machine, Flower pots, Fork sharpening attachment, Fountain, Fruit gatherer, Furnace, Furnace, hot air, Furnace, smoke-consuming, Furnace, steam boiler, Game apparatus, Garment, knitted, Gas retort, Generators, Governor, Grate, Harness, G. W. Hoover, Harness shaft, Harvester, Harvester, corn, Harvester dropper, Harvester journal bearing, Harvester rake, Harvester rake, Harvester sickle head, Hat frames, Hat, reversible, Hats, machine for pointing, Heater, Heating drum, Hog-ringing nippers, Hoof trimmer, Horseshoe calks, Horseshoe machine, Hubs to axles, Hydrocarbons, Iron, Kettle, Knitting machine, Lamp, bracket, Lamp holder, Lamp shade support, Lantern, Leather strap skiving machine, Lightning rod, Liquids, Loom, Loom shuttle, Loom stop, Mechanical movement, Metals, Milk cooling apparatus, Molder's task, Mowing machine, Nail kegs, Nail machine, Nail plate feeder, Nail tie, Needles, Needle, Oil cloth, Oil, treating, Ordinance, Ore, Ornaments, Padlock, Pall, Peg or ribbon peg wood, Peg or sole fastening, Peg or sole fastening, Peg strips, Peg wood, Pegging machines, Photograph plates, Pianos, Pigeon starter, Pin, Gardner & Blossom, Plane, block, Planter, corn, Planter, corn, Planter, seed, Plow, Plow, a. Rigby, Plow adjuster, Plows, sulky attachment, Printing press, Printing press delivery, Puddler, Pulley block, Quilting machine, Railway frog, Rake, garden, Rake, garden, Reflector, Refrigerator, River jetties, Roll couplings, Roller, anti-friction, Roller, land, Ruffier, Safe deposit box, Sandpapering machine, Sash fastener, Sash fastener, Saw frame, Saw set, Sewing machine, Sewing machine, boot, Sewing machine, button hole, Shaft hanger, Shawl strap handle, Sheep, holder for shearing, Sheet metal lids, Shell, explosive, Shingle planing machine, Ships, mechanical for trimming, Shoe nails, Shoe peg blank, Shoe tip, Slate frame, Snow plow, Soda water draft apparatus, Sole fastening, Sole fastenings, Spirit level, Spring, door, Steering apparatus, Stereotypes, Stool and cane, Stool, camp, Stools, winter rail for high, Stove, L. R. Comstock, Stove, Gram & Nelson, Stove, cooking, Stove drum, Stove, heating, Street sprinkler, Stump puller, Sugar-coating pills, Sugar, dryer for refined, Sugar, making grape, Table for milliners, Table, ironing, Telegraph sounder, Telegraph sending and receiving, Telegraphic signal box, Textile material, Ticket reel, Timber, Torpedo-filling machine, Toy, Tyre-heating device, Vegetable slicer, Vehicle umbrella support, Vehicle wheel, Vehicle wheel, G. Leverick, Vehicle wheel spoke socket, Velocipede, Ventilator, Wagon body, Washing machine, D. A. Flummerfeldt, Washing machine, James & Streitt, Washing machine, Shipley & Wheeler, Washing machine, T. Stumm, Watch case backs, Weather strip for windows, Wedge, iron, Wells, tubing, Whiffletree hook, Windmill governor, Window shade fixture, Window ventilator, Window weather strip, Windows, quadrant for opening, Wire way, Wood boring machine.

Table listing inventions and patent numbers, including items like Reflector, Refrigerator, River jetties, Roll couplings, Roller, anti-friction, Roller, land, Ruffier, Safe deposit box, Sandpapering machine, Sash fastener, Sash fastener, Saw frame, Saw set, Sewing machine, Sewing machine, boot, Sewing machine, button hole, Shaft hanger, Shawl strap handle, Sheep, holder for shearing, Sheet metal lids, Shell, explosive, Shingle planing machine, Ships, mechanical for trimming, Shoe nails, Shoe peg blank, Shoe tip, Slate frame, Snow plow, Soda water draft apparatus, Sole fastening, Sole fastenings, Spirit level, Spring, door, Steering apparatus, Stereotypes, Stool and cane, Stool, camp, Stools, winter rail for high, Stove, L. R. Comstock, Stove, Gram & Nelson, Stove, cooking, Stove drum, Stove, heating, Street sprinkler, Stump puller, Sugar-coating pills, Sugar, dryer for refined, Sugar, making grape, Table for milliners, Table, ironing, Telegraph sounder, Telegraph sending and receiving, Telegraphic signal box, Textile material, Ticket reel, Timber, Torpedo-filling machine, Toy, Tyre-heating device, Vegetable slicer, Vehicle umbrella support, Vehicle wheel, Vehicle wheel, G. Leverick, Vehicle wheel spoke socket, Velocipede, Ventilator, Wagon body, Washing machine, D. A. Flummerfeldt, Washing machine, James & Streitt, Washing machine, Shipley & Wheeler, Washing machine, T. Stumm, Watch case backs, Weather strip for windows, Wedge, iron, Wells, tubing, Whiffletree hook, Windmill governor, Window shade fixture, Window ventilator, Window weather strip, Windows, quadrant for opening, Wire way, Wood boring machine.

Table listing inventions and patent numbers, including items like Reflector, Refrigerator, River jetties, Roll couplings, Roller, anti-friction, Roller, land, Ruffier, Safe deposit box, Sandpapering machine, Sash fastener, Sash fastener, Saw frame, Saw set, Sewing machine, Sewing machine, boot, Sewing machine, button hole, Shaft hanger, Shawl strap handle, Sheep, holder for shearing, Sheet metal lids, Shell, explosive, Shingle planing machine, Ships, mechanical for trimming, Shoe nails, Shoe peg blank, Shoe tip, Slate frame, Snow plow, Soda water draft apparatus, Sole fastening, Sole fastenings, Spirit level, Spring, door, Steering apparatus, Stereotypes, Stool and cane, Stool, camp, Stools, winter rail for high, Stove, L. R. Comstock, Stove, Gram & Nelson, Stove, cooking, Stove drum, Stove, heating, Street sprinkler, Stump puller, Sugar-coating pills, Sugar, dryer for refined, Sugar, making grape, Table for milliners, Table, ironing, Telegraph sounder, Telegraph sending and receiving, Telegraphic signal box, Textile material, Ticket reel, Timber, Torpedo-filling machine, Toy, Tyre-heating device, Vegetable slicer, Vehicle umbrella support, Vehicle wheel, Vehicle wheel, G. Leverick, Vehicle wheel spoke socket, Velocipede, Ventilator, Wagon body, Washing machine, D. A. Flummerfeldt, Washing machine, James & Streitt, Washing machine, Shipley & Wheeler, Washing machine, T. Stumm, Watch case backs, Weather strip for windows, Wedge, iron, Wells, tubing, Whiffletree hook, Windmill governor, Window shade fixture, Window ventilator, Window weather strip, Windows, quadrant for opening, Wire way, Wood boring machine.

Table listing inventions and patent numbers, including items like 4,392-C. W. Selinas, 4,393-J. T. B. Bennett, 4,394-J. C. Tilton, 4,395-J. Carpenter, 4,396-T. Shaw, 4,397-H. Harris, 4,398-B. Arnold, 4,399-Wm. Adamson, 4,400-L. H. Young, 4,401-S. Dobbs, 4,402-I. F. Williams, 4,403-F. Kent, 4,404-J. B. Larkin, 4,405-E. R. Whitney, 4,406-N. Dubrul, 4,407-T. DeCodejo, 4,408-I. F. Williams, 4,409-S. L. Wiegand, 4,410-T. Irwin, 4,411-Wm. Stephenson, 4,412-E. Hamburjer, 4,413-J. Grist, Jr., 4,414-J. M. Bruce, 4,415-J. M. Brosius, 4,416-J. L. Fralick, 4,417-D. S. Cornell, 4,418-A. Rodgers, 4,419-T. Penton, 4,420-L. M. Becker, 4,421-B. Waggoner, 4,422-B. Waggoner, 4,423-J. F. Williams, 4,424-J. H. Osgood, 4,425-F. L. Bates, 4,426-E. R. Powell, 4,427-Wm. J. Garton, 4,428-M. Hutchinson, 4,429-A. Rodgers.

Advertisements.

Back Page - - - - - \$1.00 a line. Inside Page - - - - - 75 cents a line. Engravings may head advertisements at the same rate per line, by measurement, as the letter press. Advertisements must be received at publication office as early as Friday morning to appear in next issue.

Fleetwood Scroll Saw.

Advertisement for Fleetwood Scroll Saw, including an illustration of the saw and descriptive text about its features and availability.

THE Shapley Engine.

Advertisement for the Shapley Engine, featuring an illustration and text describing its benefits and manufacturer details.

HUGH SMITH, GRAY, MAINE, PATENTEE OF THE only practical Metallic Sleigh Stud.

MACHINERY, NEW & SECOND-HAND.

Advertisement for Blake's Patent Stone and Ore Breaker, including an illustration and text about its capabilities.