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Curtain roller bracket, A. Clemons	Mill. See Roller mill. Stamp mill.
Cutter holder, J. F. Allen 267.477 Detergent compound and process of making the same, C. C. Parsons 267,455	Mill for reducing grain, etc. J. Hollingsworth 267,347 Milling, method of and apparatus for, C. L. Gratiot
Dextrine, glucose, and grape sugar, manufacture of, C. Lauga	Millstone dress, F. W. Dove
Dish. butter, E. C. Westervelt	Mixer. See Dough mixer. Mortising machine. C. Seymour
Drawers, etc., W. Daub	Frank
Egg beater. J. T. Carley	tor. Hydraulic motor. Muck bar cradle, W. P. Porter
W. H. Sawyer	Rickards 267,592 Music box, M. Boom 267,432 Music sheets, feed and rewinding apparatus for
Electrotypes, machine for notching and trimming C. M. Letz	perforated, R. W. Pain
Elevator stop. Hawkins & Webster	Office indicator, W. H. Nuding 267.578 Oil cup, C. J. Pinkney 267.588 Oiling can, P. Wall 267,471
Fan, mechanical, D. S. Wright	Packing, steam, H. W. Johns
Feed water alarm for steam boilers, G. W. Getchell. 267,338 Feeder, boiler. J. B. Hyde. 267.536	Paper stock, treating, H. Charmichael
Fence, H. T. Harris 267.523 Fence. D. Long 267,548	Penholder, S. Kraus 267.545 Petroleum burner, D. E. Bangs 267.476
Fence, A. & A.J. Russell	Picture hook, A. Riley
Firearm, breech-loading, E. James	Planer knife grinder, M. W. Palmer 267,579 Platform. See Car platform.
Firearm sight, W. Cooper 267.447 Firearm sight. T. Gilbert 267,418 Fire escape, N. H. Borgfeldt 264,399	Plow, P. A. Fominaya 267,645 Plow attachment, W. H. Witt 267,636 Plow handles. attaching, W. A. Miles 267,445
Fire escape. J. P. Dunn	Plow sulky, D. P. Sharp. 267,602 Plow, wheel, E. Peak 267,581
Flour bolt, centrifugal, Holcombe & Heine 267 529 Flour mills, dust collector for, J. R. Smith 267,467 Flue, radiating, F. B. Nichols 267,362	Plumb bob, W. C. Vajen
Fluid pressure motor, E. M. Butz	Hurd
Fractions, device for illustrating, A. A. Bynon 267,402 Frog, W. J. Morden	ings, collecting the floating, A. E. Jones 267,357 Protector. See Boot and shoe strap protector.
Furnaces, mechanism for ejecting tubes from. Wolfe & Schuhmann	Hose protector. Stocking knee protector. Protractor, Ege & Walters
Furnaces, mechanism for facilitating the intro- duction of tubes into. E. W. Wolfe	Pump, gas, J. Ring
Galvanic battery, A. Bernstein	Pump spout, wooden, B. C. Stephenson 26(466 Pump, steam, W. M. Ferry 267,410 Rail for switch frogs. guard, W. J. Morden 267,568
Gas burner for blast furnaces, etc., hydrocarbon, J. Hoskins	Railway crossing, W. J. Morden
Gas engines, electrical igniting device for, A. K. Rider 267,458 Gas furnaces used in manufacturing iron and	Railway gate, Danner & Kyle 267.500 Railway rail joint, D. B. Hicks 267.425 Railway signal, J. W. Purslow 267.365
steel regulating, J. Henderson 267,525 Gate, D. S. Young 267,639	Railway signals, apparatus for operating, D. J. Lindsey
Generator. See Steam generator. Gleaner and binder, C. R. Brinckerhoff	Railway spike, H. Greer
Grain binder G. W. Scott 267,600 Grain separator, H. C. Lott 267.549	Rakes. manufacture of metallic, J. M. Young 267,646 Range, cooking, J. J. Richardson
Grate basket, C. W. W. Dankers 267.499 Grate fire, Weaver & Norton 267,388 Harrow, spring tooth, E. C. Comstock 267,404	Range, cooking. W. H. Scott
Harvesting machine, W.S. Wilson 267,476 Hat pouncing roll, J. Nutt 267,363	Refrigerator, W. S. Post
Hatchways, safety guard for elevator, E. G. Kendall	Reservoir gate or valve, E. Roche
Heater. See Soldering iron heater. Heel lifts, machine for cutting, Mundell & Gor-	Saddle bar, J. Oldmentow 287,455 saw, hand, W. H. Dodge 267,406
don	Saws. mechanism for operating the oscillating slides of gang, R. N. Nixon
Heel trimming machine, King & Strong 267.544 Hide, working raw, Rowe, Jr., & Perkins 267,595	Scale pendulum, J. Ball
Hinge for shutters, lock. Müller & Wolf	Screen. See Window screen. Scparator. See Grain separator. Sewing machine perforating attachment, M. S.
Holder. See Cutter holder. Lead or crayon holder. Pen holder. Tool holder.	Moss
Hook. See Picture hook. Suspension hook. Hoop dressing machine, N. P. Stevens	Sewing machines, stop motion for buttonhole, A. Felber
Hose protector, G. Westinghouse, Jr	Shade pendant, E. Estberg. 267,50° Sheet metal can, S. W. Valentine 267,38°
Hydraulic motor, C. E. Van Dusen	Ship, Iron, J. Rees 267,371 Shirt, M. Price 267,588 Shoe sole cutting machine, Mundell & Gordon 267,578
Incubator, A. M. Halsted	Shoe soles, machine for shaving, condensing, and assorting blanks for, Mundell & Gordon 267,578
tension indicator. Station indicator. Interlocking switch and signal apparatus, M. N. Forney (r)	Showcase, sectional, P. Henrichs267,426 to 267.426 Sign, R. E. Ghezzi
Iron works, treating the waste pickle-liquor of, Phelps & Clarke, Jr	Soldering iron heater, E. Meredith
Ironing board, M. Burlingham	Spectacles and eyeglasses, R. A. Carter
Joist bridging, H. B. Walter	& Flinn
King bolt, wagon, M. Conrad 267,327 Kitchen cabinet, J. W. Ross 267,654 Lamp, S. L. Wiegand 267,626	Spring. See Bed spring. Car spring. Spring, J. B. Armstrong. 267,317
Lamp ourner for heavy oils. G. Flower. 267,511 Lamp, electric arc, N. McCarty. 267,558	Square, centering, bevel, and try. C. L. Bellamy. 267.481 Stalk cutting machine. R. Falconer
Lamp. electric arc, E. Weston 267,474 Lamp, incandescent electric, S. H. Emmens 267,647 Last, G. W. Day 267,646	Stand. See Music and reading stand. Station indicator, electric, J. F. Loughlin 267.437
Lathe, J. B. Lisle	Steam generator, J. E. Culver (r)
Lathe wood turning C. A. Curtis	son
Lead or crayon holder. C. W. Boman	Stone or ore crusher, W. H Baxter
Lock. See Milk can lock. Nut lock. Lock nut, R. Harrington	Stool, music, E. Calix 267,328 Stool, pianoforte. W. T. Mersereau 267,358
Locomotive engine ash pans, cleaning, Kilborn & Smith 267,543 Loom shuttle, D. A. Willbanks 267,628	Stopper. See Bottle stopper. Stove ovens, heat indicator and regulator for, C. Murray
Lubricant for machinery, etc., dry. J. B. Norris 267.451 Lubricator attachment, R. J. Hoffman 267.430	Stove.vapor, Z. Davis 267,33 Straw cutter, J. T. Warren 267,47
Mattress, A. Q. Allis 267,316 Mattress, wire, E. T. Wolcott 267,631 Measuring electric currents, S. D. Mott 267,445	Street sweeping machine, J. G. A. Jacob 267,433 Suit hanger. Werntz & Lemert 267,623 Suspension hook, G. W. Woodward 267,654
Mechanical movement, J. D. Wright 267,638 Medicines, preparation for masking the nauseous	Switch. See Interlocking switch. Switch safety device. W. J. Morden 267.568
taste of. W. H. McLaughlin	Tea-kettlespout, Raynor & Smith
J. H. Steen	Telephone system, T. A. Watson
and straightening, Tasker & Wolfkiel 267,814 Metallurgic furnace, J. Henderson 267,346 Metallurgic running C.O. White	vice for, J. C. Richardson 267.45° Thill coupling, E. Hoxie 267.53° Thill coupling, E. Hoxie 267.63°

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32	Thrashing machine, Schneider & Christofferson	26 7 5 9 9	í
	Tile or pipe, drain, N. B. Childs	267.326	
17	Tobacco fly catcher, J. L. Spears		
	Toilet case for vehicles, T. Bourdren		
16	Tongue for harvesters, double, J. K. Kepner (r)		
02	Tool holder, J. C. Gray		i
24	Toy, automatic, L. S. Burridge		J
- 1	Toy bank, J. M. Keep		
65		267,488	
	Traction engine. J. C. Debes		:
15	Traction engine, H. S. Saroni	267, 4 64	,
	Trap. See Animal trap.		
	Truck, D. D. McKernan		
56	Truck, car, S. B. Driggs		
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92	Trunk, F. M. Piper	267,585	١
32	Tubes, machine for bending socket blanks for, E.		1
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64	Tubing wire, A. Harbison		
29	Type writer, C. Hilgenberg		8
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71	Valve, balanced slide. L. P. Normandin Valve gear, R. M. Hunter		
37 95	Vapor burner. H.S. Belden		
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20 20	Vault, burglar-proof grave, Huffman & Brooks		
45	Vehicle, spring. G. Delker (r)		
78	Vehicle wheel, M. N. Warren		
59	Velocipede, S. N. Silver.		1
01	Vertical boiler, return flue, P. F. Dundon		•
08	Wagon brake, Cooper & Johnson		
79	Wagon jack, J. T. Gilbert		ľ
	Washer. See Brick mould washer.		1
18	Washing machine, J. Morris	267,570	1
30	Weather strip, Lynchard & Saunders	267,355	
43	Wells, driving tube. W. J. Sherman	267.605	
02	Wheel. See Car wheel. Fifth wheel. Vehicle		١.
81	wheel.		ľ
55	Wheelbarrow, G. W. Thomas		ĺ.
18	Windmill gearing, M. R. Martin		
	Window screen, II. Grimshaw		ŀ
)6	Window sereen, rolling, T. Tribe	267,618	j
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38	Chair, H. H. Paine		

Calendar, C. S. Nathan	13,40
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Carriage wrench, J. L. Pope	13.43
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Dressing comb, J. P. Stepp	13,436
Shaving mug, 11. Griebel	13,403
Spring and axle block, J. L. Pope13,432,	13,433
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TRADE MARKS.

	Boots and shoes, G. C. Courtright	9,800
	Canned goods, A. N. Lewis	9,805
	Cigars, Sanchez & Haya	9,811
	Cotton duck, W. E. Hooper & Sons	9,804
	Dairy supplies, Antitropic Company	9,802
	Door checks pneumatic, Elliott Pneumatic Door	
l	Check Company	9,303
	Dry-goods, certain. R. Z. Cassell	9,799
	Flour, J. Menéndez & Bro	9,806
)	Printed publication. B. M. Wilkerson	9,812
	Silks, dress, Passavant & Co	9,801
	Watch movements, Elgin National Watch Com-	
:	pany 9,807 to	9.810
•	A CONTRACTOR OF THE CONTRACTOR	

English Patents Issued to Americans. From October 20, 1882, to October 27, 1882, inclusive.

"Cosmie," B. Arentz, New Britain. Conn. Cards, playing, B. Dreyfuss, New York city. Electric light, F. Vanchoate, New York city. Elevator, pneumatic, C. A. Needham, New York city. Friction clutch, D. Frisbie. New Haven, Conn. Governor, steam, F. D. Cumnver, Detroit, Mich. Iron ore. reduction of, L. Durand et al., New York city. Motor, G. D. Garvie et al.. New York city. Pig metal, casting, G. A. Leishman, Pittsburg. Pa. Ratchetwrench, G. W. Hight et al., Nasnville, Tenn. Razor blades, J. D. Frary, Bridgeport, Conn Sewing machines, Morley Sewing Machine Company,

Boston, Mass. Sewing machines, I.. W. Miller et al., Elizabeth, N. J. Stench trap, C. Lightbody, Brooklyn, N. Y. Tramway, rope, A. S. Hallidie, San Francisco, Cal. Vise, H. F. Read, New York city. Watches, J. W. Bell Conowingo, Md. Water purifier, D. Hanna, Ogdensburgh, N. Y.

NEW BOOKS AND PUBLICATIONS.

THE NOSE, THROAT, AND EARS By Thos. F. Rumbold. M.D. St. Louis: Medical Journal Publishing Company. 1882.

The first edition of this work was favorably noticed catarrhal inflammation of the respiratory organs is through the enforcement of proper hygienic and sana tive measures; this especially with the young.

TREATISE ON THE METALLURGY OF IRON. By H. Bauerman. No 176, Weale's Rudi-mentary Series. London: Crosby, Lockwood & Company.

Bauerman's well known treatise are found in a revision of the chemical notation; considerable additions to the locality. chapters on steel making to cover the more important recent advances in the art; and some valuable new mat-from a rubber coat? A. Try some aqua ammonia, or if ter with respect to the hematite deposits of Spain and North Africa, the colitic ores of Luxemburg and Lor- with a rag. raine, and the more important ore deposits of America and India.

Peter Kohler. G. P. Putnam's Sons, New York.

This is a very short treatise on a very important sub -



HINTS TO CORRESPONDENTS.

No attention will be paid to communications unless accompanied with the full name and address of the writer.

Names and addresses of correspondents will not be given to inquirers,

We renew our request that correspondents, in referring to former answers or articles, will be kind enough to name the date of the paper and the page, or the number of the question.

Correspondents whose inquiries do not appear after a reasonable time should repeat them. If not then published, they may conclude that, for good reasons, the Editor declines them.

Persons desiring special information which is purely of a personal character, and not of general interest. should remit from \$1 to \$5, according to the subject, as we cannot be expected to spend time and labor to obtain such information without remuneration.

Any numbers of the Scientific American Supple-MENT referred to in these columns may be had at this office. Price 10 cents each.

Correspondents sending samples of minerals, etc., for examination, should be careful to distinctly mark or label their specimens so as to avoid error in their identi-

- (1) A. F. W. asks: Will you inform us what is the active substance used in the so-called bleaching powders (used for bleaching hair, etc.)? Is it sulphide of barium? Also please explain its action. A. It is the peroxide of barium, to be bought in bulk in the market, and contains a large proportion of loosely combined oxygen gas, which in the peroxide of hydrogen produced has the powerful bleaching action.
- (2) G. C. W. asks: 1. What size propeller must I have to run a skiff 151/2 feet long by 31/2 feet beam, to make six to seven miles per hour? A. 18 inches diameter and 21/2 feet pitch. 2 How many revolutions should the propeller make per minute? A. 300 to 350. 3. Is a two or four bladed propeller best? A. Two bladed. 4. What should the weight be of it? A. About 70 or 80 pounds.
- (3) C. W. G. writes: I recently bought a lot of books at auction that are very badly stamped with blue ink which greatly disfigures them; can you give me a recipe that will remove the blue ink without disfiguring the paper? A. Try a little peroxide of hydrogen solution, and if this fails, diluted hydrochloric acid, 1 part acid to 7 of water.
- (4) E. E. P. asks: 1. Where can I obtain Dr. Henry Draper's paper on silvered glass specula? A. Draper's Method of Silvering Specula, Scientific Amer-ICAN SUPPLEMENT 105. SUPPLEMENT 121 has several other methods. 2. How large should the small speculum of a telescope of the Newtonian form of 834 inches aperture and 80 inches focal length be, and in what position should it be placed, its shape being oval? A. The size of a small speculum for a Newtonian form of telescope should be one-fifth larger in its lesser diameter than the field glass of your lowest eye piece, and should be an ellipse of the proportions of a cylinder cut at 45°, and may be placed in the optical axis of the telescope for the best effect, although they have been placed in all positions between the center and edge of the tube, with the eye pieces at other positions than at right angles to the tubes, as well as being dispensed with, as in the Herschelian and Ross form with their accompanying distortion of image and increase of light.
- (5) T. H. J. asks for directions for softening or annealing steel sufficiently to admit of cutting letters on the face of block by hand. A. For annealing steel for cutting with a graver by the water process, heat the steel to a full red, let it cool slowly in dry lime or fine ashes until it is black, then dipin water.
- (6) G. G. asks how bort and carbonado. are attached to drills, and how the drills are worked to prevent fracture of the brittle minerals? A. The setting of bort or carbons in drills is done by boring holes in the iron, where the bort or carbon is required to be placed, and cutting the sides of the holes with small chisels or gravers of the proper shape to receive it to the depth sufficient to allow of the adjoining metal being driven up against the bort with small NEW BOOKS AND PUBLICATIONS. chasing tools, so as to partially inclose it with a firm HYGIENIC AND SANATIVE MEASURES FOR metallic border, leaving the carbon projecting just above CHRONIC CATARRHAL INFLAMMATION OF the surrounding surface. Such drills must be handled very carefully and should never be dropped upon the bottom of the bore. The drills are generally made hollow, or of iron tubing with the carbons set on the outer and inner edge, so as to make a cut that will clear the tube and take out a solid core of rock in the cenabout a year ago. The author is more than ever confident that the most successful method of eradicating clear that the most successful met cleared with a stream of water down the center.
- (7) J S G asks: 1 Is it unhealthy t pulverized borax in washing the hands and face, say several times a day, for years? It is better and cleaner than soap. A. Borax is an excellent detergent and harmless to the skin, even if used as often as you mention. 2. Are cockroaches not useful from a sanitary point of the question? I know they are disagree-The improvements in this, the fifth edition of Mr. able to have around. A. Cockroaches are probably excellent for removing the filth that brings them to a
 - this will not answer, spirits of turpentine rubbed on
- (9) C. S. asks: Can you give form of furnace and process for annealing gray iron casting? A. Dress and Care of the Feet. By Prof. Gray iron work is annealed by packing in iron boxes (cast or wrought) with lime and charcoal, pulverized coke mixed with fine ashes. In fact, any material that does not melt will exclude air or prevent oxidation. ject to most persons The venerable author has treated Furnaces are made similar to the reverberatory furnace the feet of some of New York's most distinguished citi- for ores and iron or a puddler's furnace. Heat only to a zens for a quarter of a century, and at the end of his cherry red, and continue from one to three hours ac-