#### RECENTLY PATENTED INVENTIONS. Of General Interest,

ANIMAL-TRAP.-J. KERNS. West New York, N. J. In the present patent the object of the inventor is to provide a new and improved animal-trap, more especially designed for trapping alive fish, crabs, and other animals, the trap being simple, easily set, and quick in action. The trap can be readily lowered into the water for the fish, crabs, etc. to get to the bait and to become entrapped alive within a basket.

PLUG.-E. M. HALL, Raymondville, N. Y. Mr. Hall's present invention is an improvement in plugs for use in rolls of paper, and has for its object the provision of a novel construction whereby to prevent the plug from slipping out of the roll during storage and shipment of such paper-rolls.

DUMB-WAITER SHAFT.—G. GERAERDTS, New York, N. Y. In this patent the invention relates to masonry; and its object is to provide a new and improved dumb-waiter shaft or like structure formed mainly of building-blocks or tiles and arranged to insure the formation of light but exceedingly strong and durable walls.

CUFF-HOLDER .-- A. P. GILLEN, Chicago, Ill. The invention relates more especially to that type of cuff-holders which are secured within the coat-sleeve and secure the cuff independently of the shirt-sleeve. The principal object is to provide a holder in which the cuff may be readily adjusted without changing the position of the holder within the sleeve. A further object is to provide a holder operated by pressure upon the outer surface of the sleeve and which is so constructed that it may be set and held in open position ready to receive the cuff, so it may be introduced and secured with great ease and rapidity.

DENTAL TOOL .- E. FORQUIGNON, New York, N. Y. The inventor's object is the provision of a dental tool to be used for scaling off calcareous deposits from the teeth and also enable the dentist to conveniently and quickly form and scrape a tooth-carrying rubber plate to accurately fit the same against the hard palate or roof of a person's mouth.

PAY-ROLL .- C. T. CHICHESTER, Placerville, Cal. The intention of the inventor is to provide a new and improved pay-roll for the use of merchants, contractors, lumbermen, or other employers of labor arranged to embrace a time-book, a ledger, and a receipt-book to show at a glance how an account between an employer and an employee stands at any time.

SINGLE-TRIGGER MECHANISM FOR DOUBLE-BARREL GUNS.—J. C. BROYLES, Birmingham, Ala. The invention relates to locks for double-barrel guns, and particularly to that class wherein a single trigger controls and operates both hammers. The trigger is so arranged that by sliding forward or back it is adapted to come in contact with the respective sears of the two hammers. Thus either barrel may be fired at will, according to the position in which the trigger is set, or the barrel may be fired successively without such shifting of the-trigger.

PASTE FASTENING FOR RUGS OR CARPETS.—C. C. CONNER and T. GRIMLER, New York, N. Y. The invention of Messis. Conner and Grimler relates to fastenings for rugs or carpets, their more particular object being to produce a fastening of suitable form to be held in place by paste and, if desired, to utilize a partial vacuum as an auxiliary means for securing the fastening in posi-

SPRING-ROLLER.-W. A. HADDEN, New York, N. Y. In this case the invention refers to improvements in spring-rollers particularly adapted for use with heavy shades, displaying fabrics, and the like. With a spring-roller as usually constructed it often happens that in rolling up, the end of the shade or other material will, through the spring force, pass over the roller several times, thus weakening the spring force and making it necessary to remove the roller to rewind the spring. The invention provides suitable means to obviate the above difficulties.

### Hardware and Tools.

WRENCH .- H. PHELAN. Jimenez. Mexico. Mr. Phelan's invention relates to improvements ed. Will sell same outright, consider royalty or corand a sliding jaw, an object being to provide tive circular. Geo. H. Rowe, Patentee, Box 442, Ennis, a wrench of this character that will be com- Texas. paratively light yet strong and that may be quickly adjusted to a nut or pipe.

## Prime Movers and Their Accessories.

EQUALIZING-GEAR FOR RECIPROCAT-ING PRIME MOVERS.—M. NEUMAYER, New initure. York, N. Y. The inventor's object is to provide a power-equalizing gear for prime movers having a pair of cylinders and pistons reciprocating therein, arranged to give the piston which has passed a central position a rapidly increasing mechanical assistance from the other piston to eliminate all danger of the prime mover stopping when a piston reaches the central critical position referred to.

the invention, and date of this paper.

### Business and Personal Wants.

READ THIS COLUMN CAREFULLY, You will find inquiries for certain classes of articles numbered in consecutive order. If you manufacture these goods write us at once and we will send you the name and address of the party desiring the information. In every case it is necessary to give the number of the inquiry. MUNN & CO.

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Inquiry No. 6404.—For manufacturers of the electric candy machine known as "Fairy Floss" or Cotton Candy." For logging engines. J. S. Mundy, Newark, N. J.

Inquiry No. 6405.—For makers of decorative glass spangles or ornamental cut glass.

"U.S." Metal Polish. Indianapolis. Samples free.

Inquiry No. 6406.—For manufacturers of copper plated sheet iron and steel. Perforated Metals, Harrington & King Perforating

Co., Chicago,

Inquiry No. 6407.—For paper decorative panels for tapestry work, also for theatrical scenery from which to paint. Handle & Spoke Mchy. Ober Mfg. Co., 10 Bell St.,

Chagrin Falls, O. Inquiry No. 6408.—For makers of a pneumatic drag saw.

Adding, multiplying and dividing machine, all in one. Felt & Tarrant Mfg. Co., Chicago.

Inquiry No. 6409.--For information concerning Patrick Metal."

Sawmill machinery and outfits manufactured by the Lane Mfg. Co.. Box 13, Montpelier, Vt. Inquiry No. 6410.—For disks of prepared paper for igniting wicks of pocket eigar lighters; the disks are about 1 inch in diameter, having on the face small patches of chemical substance.

Special Machinery to order, manufacturing, metal

stampings, etc., Brickner Machine Co., Tiffin. Ohio. Inquiry No. 6411.—For makers of fancy paper shades for electric light globes.

Robert W. Hunt & Co. bureau of consultation, chem-

Chicago. Inquiry No. 6412.—For makers of wooden blocks containing spirit plumb.

Patent for sale or on royalty.-Combination watch. fob chain, key and chatelain bag protector. D. Summa, 129 Thompson Street, New York City.

Inquiry No. 6413.-For makers of wooden thumb

The celebrated "Hornsby-Akroyd" Patent Safety Oil Engine is built by the De La Vergne Machine Company. Foot of East 138th Street, New York.

Inquiry No. 6414.—For dealers in patented novel-ties.

I have every facility for manufacturing and marketing hardware and housefurnishing specialties. Wm. McDonald, 190 Main St., East Rochester, N. Y.

Inquiry No. 6415.—For makers of steam erom ½ to 1 h. p.

The SCIENTIFIC AMERICAN SUPPLEMENT is publishing a practical series of illustrated articles on experimental electro-chemistry by N. Monroe Hopkins.

Inquiry No. 6416.—For machines for making bri-quettes from marsh mud, or who control the process.

Letters. Journals, Prints, Washington Portraits, Early the body and is rapidly propagated. The worm American Illustrated Magazines, Early Patents signed by Presidents of the United States. Valentine's Manuals of the early 40's. Correspondence solicited. Address C. A. M., Box 773, New York.

Inquiry No. 6417.—For machinery for cleaning cluthing.

ed. Dies made. Metal Stamping Co., Niagara Falls, N.Y. Inquiry No. 6418.—For makers of ice machinery and outfit; also for makers of corrugated iron arches for building.

We manufacture gasoline motor and high-grade machinery, castings best quality gray iron. Select patterns, and let us quote prices. Frontier Iron Works, Buffalo, N. Y.

Inquiry No. 6419.—For large quantities of draw knife with 6-inch blade.

ing, screw machine work, hardware specialties, machine and tools. Quadriga Manufacturing Company, 18 South Canal Street, Chicago.

Inquiry No. 6420.—For makers of bottles for coda water with Codd's ball stoppers.

Wanted.—Having a thoroughly organized agency force, we are desirous of securing Exclusive Pacific Coast Agency of Articles of Merit, where personal solicitation is required. Address Suite No. 2, 47 Geary Street, San Francisco, Cal.

Inquiry No. 6421.—For makers, of earthen baking utensils containing asbestos.

CALCULATING MACHINES.-Wanted, first-class firm willing to take up the agency and sale in the United States and Canada of a well-known calculating machine. Terms very favorable. Apply Grimme, Natalis & Co., Braunschweig, Germany.

Inquiry No. 6422.—For makers of fiberloid.

Rowe's Automatic Carpenter's Hammer Device.— United States, Canada and Great Britain patents grantin wrenches of the type having a fixed jaw respond with some one with capital. Send for descrip-

Inquiry No. 6423.—For machinery for the desiccation of coceanut,

Inquiry No. 6424.—For makers of call boxes similar to those employed by the Western Union Co. Inquiry No. 6425.—For makers of woven wire bed springs, also spiral springs.

Inquiry No. 6426.—For machinery for evaporating sweet corn for table use,

Inquiry No. 6429.—For parties to build 1.000 or more autos per year complete, on contract, drawings and samples furnished.

Inquiry No. 6430.—For an estimate of cost of mall plant of machinery for making tin boxes of all

Inquiry No. 6431.—For makers of hollow wire, small pressure tank and gasoline lamps.



MINIS TO CURRESPONDENTS.

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.

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Miner erals sent for examination should be distinctly marked or labeled.

(9520) W. A. T. asks: Would you kindly give me directions for a spark coil for 3-horse-power gasoline engine? Size of core, feet and number of wire for primary; also feet and number of wire for secondary. have 550 feet of No. 18 cotton-covered wire that I would like to work into the coil. Want coil to give about 1/2-inch spark. A. Supple. MENT No. 1281, which we have sent you upon Your order, gives full information concerning a coil for gas engine ignition, if one has gen eral knowledge of the work of construction. Lacking this, it would be best to get Norrie's "Induction Coils," price \$1, which gives deical and physical tests and inspection. The Rookery, tailed instruction in this work, together with tables of data for all the parts of coils of all sizes up to a 12-inch spark. Do not use so coarse a wire as No. 18 in a secondary coil and use a coarser wire in the primary. Two layers of No. 14 will be right for primary layer 6 inches long. Three-fourths pound of No. 36 silk-covered will be right for secondary to give a half-inch spark. Core should be % to 1 inch in diameter and 7 inches long 2. If a person sparked his engine with a magneto, would be need a coil also? A. A magneto can be made which will render a coil unnecessary, but a battery and coil are necessary till the machine has speed enough to enable the magneto to generate.

(9521) C. S. J. asks: I wish to learn the cause of trichinæ in pork. A. The trichina spiralis is a worm, a parasite of the hog. I is often found in great numbers in the flesh of these animals, in the encysted condition but still alive. If such meat is eaten without WANTED - Revolutionary Documents. Autograph cooking thoroughly, the parasite is taken into came originally from the rat. As hogs eat rats, they pass into the hog and thence into man. The only preventive is thorough cooking. This kills the trichinæ. No rare or underdone pork should ever be eaten. The risk Any metal, sheet, band, rod, bar, wire; cut, bent is too great. The cost of immunity is so little, crimped punched, stamped, shaped, embossed, letter-that anyone may be safe. Cook all pork thoroughly. 2. The cause of ptomaine poison ing by eating pork. What causes the presence of the poison, how the poison can be prevented, and whether or not there is any way of detecting the presence of poison before using the meat? A. Ptomaines are formed by decomposition. If only fresh food is used, one will be safe from these poisons.

(9522) H. S. N. asks: I have been a Manufacturers of patent articles, dies, metal stamper reader of your paper for several years, and always enjoy reading it. I should like to submit a problem for solution. The problem is this: Several years ago I took a picture of a fast train while running, a Michigan Central flier, at a point about two miles east of Decatur. On development the plate showed a blur of 1.32 inch, i.e., the pilot did. I used a Vive extra rapid plate; the focus of the lens was 6 inches; the distance of the engine, the pilot, from the camera, 50 feet; the length of exposure, 1-100 of one second; camera was placed at an angle of 15 deg. with the track. What was the speed of the train? The camera was a Vive, 41/4 x 41/4, meniscus lens. A. The solution of your problem of the speed of the train is not difficult, at least so far as a sufficiently close approximation is concerned. Start with the fact that the image of the pilot moved 1-32 inch during exposure. Since the lens is 6-inch the pilot is feet away, the pilot moved across the line drawn through the center of the lens, 100 times 1-32 inch, or 3.125 inches, since 50 feet is 100 times 6 inches. And since the camera made an angle of 15 deg. with the track, we must divide the 3.125 inches by the sine of 15 deg. to find the distance the pilot moved during the exposure. This gives 12.07 inches as the distance the train moved in the time Inquiry No. 6428.—For makers of electric stor- of exposure, or 1-100 second. In one second it ge batteries, such as are used for propelling auto- moved 1,207 inches, or 100 feet 7 inches. This obbiles and recharged by electricity. As we said above, this is an approximate solution, but still not far from the result which an exact solution would give.

(9523) J. S. M. asks: Will you kindly answer in your column of Notes and Queries Inquiry No. 6432.—For machinery and appliances the inclosed questions relative to Roman comforoil refining. 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 and grinding green foodstrifts to proper to the invention and does and grinding green foodstrifts to proper to the invention and does and grinding green foodstrifts to proper to the invention and does at the contract of the invention and does at the contract of the invention and does at the contract of the patents. Inquiry No. 6434.—For machinery for crushing and grinding green foodstuffs, to prepare same for drying, also for machinery for such drying.

The decrease of the first see and person whom I have asked who could throw any light on the carrier.

Carrier. See Bundle carrier.

subject. A. Very little is known concerning the method by which the Romans used their very inconvenient notation for performing the ordinary calculations. They are supposed to have used the abacus for all except the most simple problems. This instrument is in common use now by all Chinamen, and it is not difficult for any one to see it used wherever these men may be found. A description of the abacus may be had from any encyclopedia. There was a rod for each denomination of numbers to millions, seven rods each carrying five balls. Another set of short rods corresponded to these, and had one ball sliding on each. They could thus count by fives and carry by tens. Other rods supplied their need for calculating ounces. Further than this their business did not require them to go; they never needed to divide the distance of the sun by the velocity of light. They died in total darkness in regard to both of these data of the universe. As we said at the Books referred to promptly supplied on receipt of outset, we do not know the detail of the method by which the Romans made their calculations. Their mode of writing numbers was not like ours by placing like denominations in the same column, but each letter had its significance, and each number could be added by itself on the abacus, since each rod meant a denomination.

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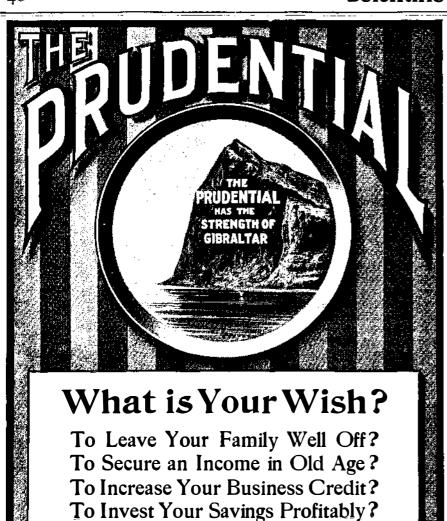
For which Letters Patent of the United States were Issued for the Week Ending January 10, 1005

AND EACH BEARING THAT DATE

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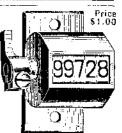
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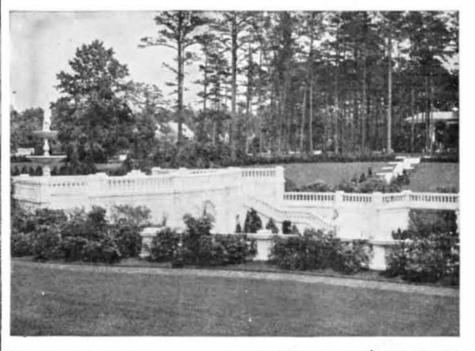
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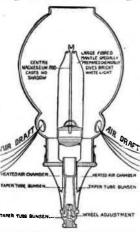
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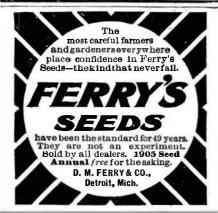
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	Voltage regulator, . M. Lacey	779,720
	Wagen, H. Rodennausen	779,804
	Wagon box, C. B. W. Smith	779,627
	Wagon, coasting, H. F. Keyes779,600,	775,606
	wagon, dump, van wagenen & Sweet	779,891
	Wagon, dumping, J. F. Clark	779,508
	Warp noat cutting machine, G. H. Boynton	779,763
	Washboller, J. E. Faucett	(10,018
ı	Washing machine, Garver & Dauer	770 950
3	Washing machine, E. J. Klimurry	779,890
-	Washer, H. M. Wallt	770 000
	Watch protector, R. A. Thratt	779 501
	Water cooler, L. H. Brinkman	770 010
	Venicie wheel spring fork, C. — Heastrom Vending machine, coin-controlled, W. H. Walter Ventilator. See Car ventilator. Ventilator. See Car ventilator. Ventilator. S. H. Jacobson Voltage regulator. • M. Lacey. Wagon, H. Rodenhausen. Wagon box, C. B. W. Smith Wagon, coasting, H. F. Keyes	770 845
	Water beed mate D D Classen	770 541
	Water heaten B Hoffman	779 499
	Water heater automatic abut of D Hoff	110,420
	water heater automatic shut on, K. Hon-	778 711
	Woten wheel T. D. Timbr	779,711 779,978
	man Water wheel, T. R. Timby Wax emulsion and producing same, H. H.	110,010
	Church	779 597
	Church Weaner, calf, C. W. Frick Weighing machine, automatic, G. J. Hicks, 779,649,	779,527 779,701
	Waighing machine automatic C I Iliaha	10,101
	TTO GAO	779,650
	Well drilling machine, F. E. Simpkins	779,671
	Wheat cleaning and scouring machine, M.	. 10,011
	A Criffin	779 595
	Windmill wind wheel A I Ziaglar	779,595 779,514
	Window or door elerm enterests T War	110,014
P,	A. Griffin Windmill wind wheel, •. J. Ziegler Window or door alarm, automatic, J. Wag-	779 458
	Window strip R R Las	779 540
	Wine cooling device F P Nobie	779 969
	Wrench M C Morrison	779 480
	Wrench, M. C. Morrison	779,489
	Window strip, R. R. Lee Wine cooling device, F. P. Nobis. Wrench, M. C. Morrison Yarn drying apparatus, Berry & Woodward.	779,489 779,759

#### DESIGNS.

1					
	Fringe, J. Trimming,	C.	Atkinson Seidel	37,291,	37,292 37,293

#### TRADE MARKS.

	Cards, playing, R. Freeman	43,987
	bacco, H. P. Strause	43,989
	tain named, Columbia Refining Co	43.994
	Coal, cannel, Mahoning & Lake Erie Coal Co.	43,999
	Flour, wheat, Phoenix Mill Co	43,991
	Ice cream, II. C. Gertz Leathers, certain named mechanical, E. F.	43.990
	Houghton & Co	43,988
	eases, L. L. Hill	43,993
	Razor hones, sharpening stones, and sharpening wheels, F. Swaty	43,997
	Remedial agent for the treatment of lung and nasal diseases, Somnola Medicated	
	Pillow Co	
	Roofing material, certain named asphalt,	
	Asphalt Roofing Co	43,555
	Slate products, certain named, J. A. Qualey	43,556
	Steel, certain named, J. Beardshaw & Son	43,558
i		
	LABELS.	
	// · · · · · · · · · · · · · · · · · ·	11 70

"Atlas," for mantles, Cluster Gas Light Co.	11,798
"Crasper's Easy Workers," for a cathartic	
"Crasper's Easy Workers," for a cathartic medicine, M. L. Crapser Co "Frankfort Distillery," for whiskey, Frank-	11.791
"Frankfort Distillery" for whiskey Frank-	,
fort Distillery	11 791
Tott Distincty	11,101
"Frenzied Finance," for educational cards,	
G. R. Taylor	11,793
"Hammond Public Library," for cigars,	
Liesenfelt Bros	11,785
Liesenfelt Bros.  "Hoffman's Life Preserver," for a hair tonic and dandruff cure, R. H. Hoffman "Korn Flour," for flour, H. Hunter.	,
tonic and dandruff ours D II Hoffman	11 707
tonic and dandrun cure, R. H. Homman	11,101
"Korn Flour," for nour, H. Hunter	11,780
Lion Brand, for ladders, r. Tettenborn.	11,799
"Locion Higienica De Eucaliptus," for a	
medicinal preparation for the preserva-	
tion of the hair, Ruiz y Roca11,788 to	11 700
tion of the han, iture y tooks. 11,100 to	11,100
"Medial Script Sentence Builder," for edu- cational cards, Milton Bradley Co	11 505
cational cards, Milton Bradley Co	11,750
"Medial Script Word Builder," for educa-	
tional cards. Milton Bradley Co	11.794
"My Prima Havana," for cigars, W. Edel-	
stein	11 789
"Old Timers," for cigars, C. Fleischmann	11,783
Till Tillers, for eigars, C. Fielschmann	11,100
"Table Builder No. 1," for educational	
cards, Milton Bradley Co	11,796
cards, Milton Bradley Co	
cards. Milton Bradley Co	11.797
"Toka Tonia" for a proprietory medicine	11,.0.
"Taka Tonic," for a proprietary medicine, Taka Tonic Co	11 709
Taka Tonic Co	11,102
"Waterloo Cigars," for cigars, M. A. Pacella	11,784
"Windsor Castle Ties," for ties, I. Isaac &	
Co	11.780
	_,

"Blue Ribbon," for beer, A. von Cotzhausen .	1,180
"Blue Ribbon," for beer, A. von Cotzhausen . "McKinley Tea," for a medicine, C Lar- ter	1,181
"Reedy's Cylinders," for cylinders, J. W. Reedy Elevator Manufacturing Co	1,182
"Snow White Marble Bleach," for marble	
"Steffen-Bretch Ice and Ice Cream Company,"	
Cream Co.	1,179

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