For which Letters Patent of the

United States were Issued

for the Week Ending

May 20, 1902,

AND EACH BEARING THAT DATE.

LSee note at end of list about copies of these patents.

# RECENTLY PATENTED INVENTIONS

**Electrical Apparatus.** ELECTRIC COUPLING. - T. C. JAMES, Manistee, Mich. The electric coupling is designed particularly for connecting signal wires between the cars of a railway train. It provides a joint of simple construction so arranged that should the sections be separated, either intentionally or through accident, the circuit will be completed in each section, and will therefore not interfere with the signaling system.

## Machines and Mechanical Devices.

WEIGHING-MACHINE.-C. B. COMEGYS, Ashgrove, Mo. The machine is designed to weigh out merchandise by its value-that is to say, when properly set, to weigh out the worth in merchandise of a certain sum of money and to automatically cut off the merchandise when the proper amount has been delivered.

UNIVERSAL PRINTING-MACHINE .--- C. L DAWSON, Jacksonville, Ill. This machine will quickly and cheaply print announcements in letters of large size, and is particularly adapted for use of stores, real estate agents and others. The apparatus comprehends a universal letter type which is constructed in separate sections, so as to be capable of printing any letter or numeral by a selective action which brings into printing position such of the sections as are required for any particular letter.

CLUTCH.-E. DYSTERUD, Monterey, Mexico. The clutch is designed especially for use in connection with alternating-current electric motors. It comprises a clutch member carried by a rotary part of the motor and controlled by centrifugal force, this clutch member working with the second member fast on the shaft which is to be driven. When the motor is revolving at low speed the shaft is not driven therefrom; the centrifugal force, however, at-tending a revolution at high speed causes the clutch members to be engaged and the shaft is driven.

EMBOSSING-MACHINE.-I. CLAPPER, Osnaburg, Ohio. The machine affords improvements in embossing or printing ornamental designs on hollow building blocks or tiles during the process of forming the same, and is so constructed as to permit ready adjustment of the  $\varepsilon \mathbf{m} \mathbf{bossing}$  cylinder for any desired depth of impression.

CARDING-MACHINE ATTACHMENT. -- C. D. INGRAHAM, Penacook, N. H. Mr. Ingraham provides a new and improved carding machine attachment for preventing any of the stock from passing over the ends of the cylinder and going to waste and causing all the stock in the lap to pass to the doffer to insure formation of a lap of uniform thickness throughout its width.

MACHINE FOR MAKING BASKET-COV-ERS .--- C. ENGBERG, St. Joseph, Mich. This invention, relating to machines for making covers for baskets and other receptacles, involves certain novel mechanism concerning the holder for the work and the means for rotating or otherwise actuating the holder as it co-acts with the stapling or nailing device.

MACHINE FOR POLISHING RINGS .-- G. H. GASKINS, Portsmouth, Va. Mr. Gaskins provides a ring-carrier for the rings to be polished, a polishing strap to operate between its ends on the ring, and a carrier for this strap which is capable of reciprocation. The inventor informs us that the machine has been built and is now running successfully and giving satisfaction in the United States Navy Yard at Norfolk. Va.

### Medical Apparatus.

APPLICATOR .--- G. J. VAN SCHOTT, Passaic, N. J. The invention provides a new and improved applicator more especially designed to

## THE NATION'S BASKETS.

THE NATION'S BASKETS. The Mergenthaler-Horton Basket Machine Com-pany is making great preparations for handling the big basket contracts which are offered to it. An order has just been given out for the manufacture of 100 new machines for making 8-pound grape baskets. These 100 machines combined will have a capacity of 400,000 8-pound baskets per day. Some idea of the immensity of the demand for this size of baskets may be gathered from the fact that the contracts which are now offered to the Company for baskets of this size alone will require the running of these 100 machines 10 hours a day 300 days in the year. Four hundred thousand baskets per day for 300 days is 120 million baskets. If anyone were to see one or two millions of baskets piled up together, he would imagine that there were enough baskets in the pile to pack the grapes of the universe. Yet the State of New York alone demands at least one-half of the 120 million of 8-pound grape baskets which these machines of the Basket Company of mot less than \$6.00 per thousand on all baskets of this size. And this profit of \$6.00 remains after reducing the selling price of baskets \$2.00 per thousand below any wholesale price ever made. If company of \$720,000 per year, or over 7 per cent on the entire capital stock. THE 5-POUND GRAPE BASKET.

### THE 5-POUND GRAPE BASKET.

The demand for 5-pound grape baskets is fully as great as for 8-pound grape baskets. The Com-pany has already been compelled, for lack of ma-chines, to refuse an order for 45 million 5-pound grape baskets for this year's crop. It now has machines to the number of 26 in operation making 5-pound grape baskets, and will place an order for 75 more of these machines just as soon as it can be done without retarding the work of the 100 ma-chines already referred to as being made to make 8-pound baskets. 8-pound baskets.

#### PROFIT ON GRAPE BASKETS.

Before this time next year these 200 machines will be working steadily, turning out baskets for next year's crop. The profit on 5-pound grape baskets, as handled by this Company, amounts to a little over \$5.00 per thousand net. The number of baskets which these 5-pound machines will make each year is fully as great as the number which the 8-pound machines will make. Figuring it as 120 million of 5-pound baskets at a profit of \$5.00 per thonsand, and it is easy to see that this item will add \$600,000 a year to the Company's profit, or a total for grape baskets aloc=of \$1,36,000, which is over 13 per cent on the entire capital of the Company, earned by the business in grape baskets which the Company's automatic machines absolutely control. machines

#### QUART BERRY BASKETS.

The volume of business in quart berry baskets amounts in dollars and cents to fully as much as the volume of business in grape baskets, and this Company's equipment for making the quart berry basket is being rapidly extended. At the present time there are already 8 berry basket machines in operation. These machines have a capacity of 12,000 berry baskets per day each, or a total of 96,00° berry baskets per day. Negotiations looking toward the completion of a contract for the manufacture of 50 more of these berry basket machines are going forward as rapidly as possible. When these ma-chines are completed, which will be within a few months, the Company's capacity for making berry baskets will be about one and one-half billions per year.

haskets will be about one and one-half billions per year. The selling price of berry baskets at the lowest rate known anywhere is \$2.25 per thousand: this Company is prepared to sell these berry baskets at \$1.60 per thousand and make a net profit of \$1.00 per thousand out of this for every thousand baskets made. More than one-half of the entire berry basket business is already offered to this Com-pany, and it is merely a question of the completion of the negotiations when the entire demand for berry baskets will be turned over to this Company to supply. It is absolutely certain that the whole berry basket business will be contracted to this Company before its machines can possibly be com-pleted to turn out the work. A very simple cal-culation on the volume of herry basket business, as stated above, sold at the unheard-of low order of \$1.60 per thousand, out of which the Commany. This will make a total of profit earned on grape baskets and herry baskets of \$2,800,000 per year, or 28 per cent on the entire capital of the Com-pany. pany.

#### THE TILL BASKET.

Next in order of calculation is the basket known as the Till Bisket. This basket is used for the shipment of peaches from Georgia and the Super-ern States; for the shipment of plums and for the shipment of tomatoes from all the Southern points to the Northern markets. The Mergenthaler-Horton Basket Machine Com-nany has fust perfected a machine for the manu-facture of these "till baskets." This machine for making quart berry baskets, and will turn out these "till peach baskets" at the same speed that the berry basket machine turns out berry baskets, which is 12,000 per day.

35 PER CENT TO 40 PER CENT ON ENTIRE CAPITAL.

proved applicator more especially designed to enable the patient, unaided by a physi-cian, to apply medications to the cervix uteri or to the cervical canal without danger of injuring any of the interior parts of the vagina and womb. BURNER AND INHALER.—W. R. WARNER, Vergennes, Vt. The burner and inhaler is ar-ranged to permit the user to burn suitable herbs or drugs in a very convenient manner and to bring the fumes arising from the burn-ing process directly to the mouth or nostrils of a patient to insure proper application of the fumes without waste of the herbs or drugs.

# Business and Personal Wants. INDEX OF INVENTIONS

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

Marine Iron Works. Chicag. Catalogue free.

Inquiry No. 2626.—For a machine for putting cylinder heads in piling after being driven. "U.S." Metal Polish. Indianapolis. Samples free.

K Acid, G Inquiry No. 2627.—For manufacturers of adding machines.

WATER WHEELS. Alcott & Co., Mt. Holly, N. J. Inquiry No. 2628.—For engine lathes and ma-chines for making stoves with electric motors attached. For mining engines. J. S. Mundy, Newark, N. J.

Inquiry No. 2629.—For machines for making bite bone substitutes.

Handle & Spoke Mchy. Ober Mfg. Co., 10 Bell St., Chagrin Falls, O.

Inquiry No. 2630,-For makers of broom machin-

Sawmill machinery and outfits manufactured by the Lane Mfg. Co., Box 13. Montpelier, Vt.

Inquiry No. 2631.—For makers of marineengine eastings.

We design and build special and automatic machinery for all purposes. The Amstutz-Osborn Company, Cleve land, Ohio.

Inquiry No. 2632.—For ball ball-bearing casters for use in rolling mills in handling sheats, being a ball which will revolve in any direction set on hall-bearings. Automobiles built to drawings and special work done promptly. The Garvin Machine Co., 149 Varick, cor. Spring Streets, New York.

Inquiry No. 2633.-For makers of turning lathes. Manufacturers of patent articles, dies, stamping Binde Difference of the state of tools, light machinery. Quadriga Manufacturing Com-pany, 18 South Canal Street, Chicago.

| Bit a | Blast | Block Inquiry No. 2634.-For makers of fountain pen stocks.

Clippings of everything printed on any subject in the American and foreign press. United States Press Clipping Bureau 153 Lasalle Street, Chicago, Ill.

Inquiry No. 2635.—For makers of porcelains for spark plugs of gasoline motors.

Designers and builders of automatic and special machines of all kinds. Inventions perfected. The W. Bottle Bottle A. Wilson Machine Company, Rochester, N. Y. Bott] Bowli

Inquiry No. 2636.—For parties to make engines out of aluminum.

'l'he celebrated "Hornsby-Akroyd " Patent Safety Oil Engine is built by the De La Vergne Refrigerating Ma-chine Company. Foot of East 138th Street, New York.

Inquiry No. 2637.—For a kerosene oil burner to generate 400 deg. of heat within four hours from the time of lighting.

IDEAS DEVELOPED.—Designing, draughting machine, work for inventors and others. Charles E. Hadley, 584 Hudson Street, New York.

Inquiry No. 2638.—For a machine for covering wire with silk.

The best book for electricians and beginners in electricity is "Experimental Science," by Geo. M. Hopkins. By mail, \$4. Munn & Co., publishers. 361 Broadway, N. Y.

Inquiry No. 2639.—For a machine for forming grass into twine by winding it with thread.

INVENTORS, ATTENTION !- Highest prices paid for novelties in card or paper. Established 30 years. Address The Tablet and Ticket Co., No. 87 Franklin Street, Chicago, Ill.

Inquiry No. 2640.—For makers of double-action uction pumps.

THE MODERN CORPORATION .- Information about incorporation, advantages, expenses, etc., new book, 90 pages, vellum, 56 cents, postpaid. Send stamp for sample pages. The Ronald Press, 170 Broadway.

Inquiry No. 2641.—For the manufacturers of the Acme oil and gas engine.

Send for new and complete catalogue of Scientific and other Books for sale by Munn & Co., 361 Broadway,

New York. Free on application. Inquiry No. 2642.—For dealers in counting machines to be attached to typewriters or cash registers.

Inquiry No. 2643.-For dealers in well-drilling machinery.

Inquiry No. 2644.—For dealers in aluminium or flowered" tin picture frames.

Inquiry No. 2645.—For makers of small gasoline angines of 2 h. p. or less.

**Inquiry No. 2646.**—For a foot or electric power machine for cutting cloth in ovals or scallops.

Inquiry No. 2647.-For makers of car-building machinery. Inquiry No. 2648,-For a stationary gasoline en-gine for running a small plant for cutting stones.

Inquiry No. 2649,—For a power pipe-threading and cutting machine for cutting pipes 2 to 6 inches.

Inquiry No. 2650.-For makers of sewage dis-

Inquiry No. 2651.—For makers of electric mining drills and general mining machinery.

Inquiry No. 2652.-For ax handle and spoke machinery

Accounts, system of device for keeping hotel, J. Willey
Acid and sulfur annhydrid, making sulfuric.
Acid, apparatus for making sulfuric, A. M.
Adding device, H. A. Smith 700,448
Krauss & von Berneck
Alloys or compounds of copper and titanium,
producing, A. J. Rossi
Apartment house, W. C. James 700,501
Automatic switch, Tancock & Cochrill 700,386
Axle journal box and roller bearing for rail-
Azo compounds, reduction of M. Buchner. 700,179
Badge, E. B. Wilmarth 700,273
Baking cup cleaner, Vautour & Prefontaine 700,584 Ball. See Golf ball. Hand ball.
Balls, manufacture of playing, E, Kempshall 700,659
Barber chair strop holder, J. Roeder 700,669
Bark strip cutting machine, E. L. Brown
700,297, 700,296 Barrel, collapsible, D. B. Jones
Barrel, collapsible, D. B. Jones
Bearing cones, lock for adjustable ball, A.
0. Smith 700,251 Bearing, device for assembling the rollers
of roller, E. F. Crowther
Bee swarm catcher, E. Stemmler 700,452 Beer cases, combined fastener and corner
stay for, A. Karlson
Belt shifter, automatic, R. I. Fancher 700,680 Berth guard and ladder, J. Plaut 700,233
Bicycle, I. W. Keithley 700,426
Bicycle, H. C. Weeks
Bicycle brake, A. Main
Kittredge
Bit and reamer, combination, G. A. Lane 700,430
Blast furnace, Norcross & Mitchell
Boat, canal, D. H. Wilcox
for, H. T. Mason
Bolt lock, 0. Jones
Book, note, A. L. Holton 700,648
tingham
Bottle cleaner, D. H. Irving
Bottle, non refillable, Farrell & Kresse 700,312
Both closure, J. M. Van Meter. 700,523   Bottle closure, J. M. Van Meter. 700,462   Bottle closure, J. M. Van Meter. 700,462   Bottle closure, J. M. Van Meter. 700,452   Bottle closure, J. M. Van Meter. 700,452   Bottle closure, J. M. Van Meter. 700,314   Bottle closure, J. M. Van Meter. 700,314   Bottle soaking and washing machine, C. H. 100,314   Bottle stopper, G. Lispenard. 700,314   Bottle stopper, G. Lispenard. 700,364   Box or chest and table, combined, F. L. 700,355   Brake and power shifting mechanism, au- 700,415
Bottle stopper, G. Lispenard
vice, Z. D. Butts
Box or chest and table, combined, F. L. Mitchell 700,355
Brake and power shifting mechanism, au- tomatic, J. F. Gail
Brush. F. Becker
Brush, F. Becker
Brush bridle, paint, G. C. Traub. 700,263   Buffing roll, A. B. Fowler. 700,189   Burglar alarm, G. Janke. 700,652   Burner. See Gas burner. Oll burner. 800,652   Burner. See Gas burner. 700,662   Burnor. 700,662   Burton mold, collar, J. S. Barnes. 700,664   Ganera, roll holding, R. H. Trumbull. 700,264   Can holder, L. Funck. 700,322   Cap vizor and eye shield, combined, H. L. Waldron   Waldron 700,587
Burner. See Gas burner. Oil burner. Burnishing or polishing machine O A
Hanford
Button mold, collar, J. S. Barnes
Calender roller, J. Kleinewefers
Can holder, L. Funck
Car, convertible, J. O'Leary, reissue
Car coupling, J. Timms
Car coupling, W. F. Elenards
Car door, J. R. Thompson
van
Car fender, street, C. O. West
Hennessey & Moore
ized, T. Weyl
Carbonated waters, manufacture of steril- ized, T. Weyl
Carding machine grinding attachment. J.
Carding machine grinding attachment, J.

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Ũ	week for eight months in the year. The baskets	Inquiry No. 2653.—For manufacturers of cellu-	Cooling and aerating device, J. C. Miller 700,531
	for the handling of this great California and Pa-	loid or hard rubber goods.	Corset, L. S. Foerster 700,317
	cific coast demand will add very largely to the	Inquiry No. 2654For makers of coal briquettes.	Corset, A. E. Parsons
	Company's profits. No figures could now be made		Cotton gin, R. B. Lumpkin 700,347
	on this field of operations which would have a suf-	Inquiry No. 2655.—For manufacturers of litho-	Couplings, voke and draft bar for. R.
PIPE AND FLUE CLEANERC. F. CRAD-)	ficiently authentic basis to warrant the effort in	graphic stones.	Morris
DICK and G. W. FARLIN, JR., Butte, Mont.	setting them forth, but everyone who gives the		Cover for tumblers, etc., F. L. Jobson 700,653
	matter an instant's thought, can see that the ex-	Inquiry No. 2656For the manufacturer of the	Cranberry picker, C. M. Blydenburgh 700,165
This simple and practical device affords ef-	nectation to handle the entire basket trade of the	Grabler check protector.	Cuff holder, W. Thurman. reissue 11,993
fective means for the loosening and removal of	Pacific coast is an entirely justifiable one, and	Inquiry No. 2657For dealers in useful indus.	Culinary vessel, L. Ambler 700,398
0	indeed overtures of business from the fruit people	trial toys.	Cultivator, M. J. Todd 700,579
soot accumulation from the interior of a stove-	controlling the California trade, are already in	-	Cultivator, lister, A. Lindgren
pipe and also from the ordinary chimney flue	progress.	Inquiry No. 2658For dealers in oil drills and	Cultivator, lister, A. Lindgren 700,665 Cultivator, two-row, L. Kirlin 700,337
•	An illustration of the superiority of the auto-	machinery for operating the same.	Current collecting or trolley poles, pivot
in a dwelling. It further affords an efficient	matic machine labor over hand labor in the matter	Inquiry No. 2659For makers of netting ma-	connection of, P. McCullough et al 700,544
implement for removing an obstruction from	of speed and excellence is given at the exhibitions	chines, especially for hammocks.	Cutter head bit, Pardoe & Shimer 700,552
	this Company is carrying on in New York, Chicago,	chines, especially for hammocks.	Cycle motor driving apparatus, H. J. Law-
a sewer pipe or the like.	Boston and Philade nhia, and will shortly be opened	Inquiry No. 2660For manufacturers of nut	son
HEEL FOR BOOTS OR SHOES.—J. G. REA.	in St. Louis, Buffelo and Pittsburg.	crackers.	Damper, R. Winter
	Shares of the Mergenthaler-Horton Bashet Ma	In ani-w No. Ogel . For dealers in het spessor	Dehorning instrument, J. G. Brown 700,168
Paterson, N. J. The heel can be readily se-	chine Company's stock are now being sold at 75	Inquiry No. 2661.—For dealers in hat creasers,	Delivery mechanism, G. F. Read 700,238
cured in position and the worn-out sections	cents a share (par value \$1.00 full paid and non-	Inquiry No. 2662For dealers of aluminium in	Desk, cabinet, R. J. Copeland 700,174
		sheets.	Detergents, making, G. Bamberg 700,602
removed and interchanged or replaced by new	basket situation as herein set forth, that no more		Distilling annousing I & Books 700.272 700.274
ones. It comprises a plurality of rubber blocks	attractive opportunity for the investment of small	Inquiry No. 2663.—For Parties to engage in the construction of airships and light engines per horse	Door guard, D. C. Meeker 700,436
	or large sums can possibly be found, than in the	construction of airsnips and light engines per norse	Door hanger, W. Louden 700,211
clustered together and secured by a circum-	shares of this Company.	power.	Door lock, sliding, A. Newell
scribing endless metallic band.	Checks for subscriptions should be drawn to the	Inquiry No. 2664.—For parties to make, in large	Door operating mechanism, Braden &
*6	order of Charles R. Barlow, Treasurer. The Di-	quantities, a small iron casting similar to a toy.	Smalley
NoreCopies of any of these patents will be	rectors reserve the right to reject any subscription.		Door securer, D. J. Matheson
	No subscription accepted for less than 50 shares.	Inquiry No. 2665For parties to manufacture	Doors, operating and latch releasing mech-
furnished by Munn & Co. for ten cents each.		rubber rings.	anism for sliding, W. S. Lincoln 700,343
Please state the name of the patentee, title of	vanced almost immediately, and may be advanced	Inquiry No. 2666For manufacturers of spring	Draft evener, E. Burns 700,299
the invention, and date of this paper.	without further notice. The executive offices of	motors.	(Continued on page 387)
the manner, and date or this haber.	the Company are at 287 Broadway, New York.	1	(CONVENIENCE OIL POYC DOL)