RECENTLY PATENTED INVENTIONS.

Electrical Devices

MAGNETIC BRAKE .- J. F. Motz, Phœnixville, Pa. In this patent the invention relates to magnetic brakes, and more especially to the type of magnet used therein. The more particular object is to provide a brake in which the magnet will hold the armature when the mechanism is subjected to light loads, and especially when a series-wound magnet is used.

Of Interest to Farmers.

CRATE.-J. S. HORTON, Lincoln, Del. In fruit transportation, particularly of peaches, freight-cars are fitted up with rows of shelves to contain baskets of fruit, so as to prevent the fruit from being bruised by pressure of one package against another. This practice is expensive to road and shipper, and the inventor's principal object is to provide a crate in tion of generating means, including a con-which fruit may be packed and shipped with. out the above-referred-to expense. The crate is of sufficient strength to enable piling of one on the other so as to allow unrestrained cir- part of the converter, and a supplemental culation of air between them.

Of General Interest.

COATING EYELETS .--- I. W. GILES, New Bedford, Mass. Eyelets, especially such as are applied to shoes and garments, are coated with japan or other varnish or paint. In applying the coat, which is commonly done by means of rotating rolls, the funnel-shaped throats of eyelets are apt to become filled more of loss, and thus obstructed by an accumulation of ease of operation of folding beas of the spec-coating material therein. Mr. Giles finds that represented by the aforesaid patent. A fur-to removed from eyelets and more ther object is to provide a bedstead which is in time and reliable in use and one heads of the same by means of an air blast or current directed through the eyelets.

INDEX .--- R. BOGUE, Moose Jaw, Canada. Mr. Bogue's object is to provide a means by which a bookkeeper of commercial accounts is able to systematically arrange names so that time can be saved in finding both in index and index-books. Another, is to employ the marginal index in connection with a compact form of key-index and ruled account sheets or pages numbered in consecutive order and interspersed with groups of index-sheets, the whole adapted to be bound in a way to provide for the removal of a filled sheet or completed account, so that another sheet may be placed in the book as a substitute for the completed sheet.

TEMPORARY BINDER.-A. T. BAXTER. New York, N. Y. The invention relates to improvements in devices for holding loose leaves or sheets in a secure manner, the same com-monly known as "temporary" binders. The object is to provide an improved form of post capable of extension or prolongation on the gradual accumulation of the leaves, the post having its members interlocked and held in secure positive manner and always presenting the ratchet-teeth on its several members in position for engagement with bolts or dogs on the locking-slat.

SUPPORT FOR REFRIGERATING-CHAM-BERS .- V. A. DE CANIO, Union Hill, N. J. The invention has for its object the pro-vision of a movable support for use in iceboxes and other refrigerating-chambers-such, for instance, as are used in hospitals, morgues, and the like-and arranged to permit convenient removal of the supporting-tray from the chamber or replacing it therein.

DUST-TRAP AND VENTILATOR.-F. E. DAVIS, Atchison, Kan. The inventor's object is to provide a dust-arresting trap for hot or cold air distributing pipes which will effectively coact with any heating or cooling apparatus wherein conduits for heated or cold air, or both, are employed for conveying warm or cool air to and from rooms and prevent intrusion of dust with the inducted air. a further object being to provide the dust-arresting apparatus with a foul-air conduit to New York, N. Y. The invention relates to remove vitiated air from rooms or inclosed improvements in machines for soaking and It is adapted for use with the tubuspaces.

points in case one becomes dull, and to prevent the fastening devices for the points from being injured when the hook is thrown down

Heating and Lighting.

HEATER.-A. G. KAUFMAN, New York, N. Y. The heater is arranged to produce complete combustion and a rapid circulation and heating of the air in the room to insure quick heating thereof or to allow of heating culinary and other vessels set on the heater, the conburners.

HYDROCARBON-BURNER.-R. MATHESON, San Diego, Cal. In its general arrangement this invention comprehends a novel construccasing in which the burner is held for the usual purpose, a jet-pipe forming an attached vaporizing means for initially heating the main converting or generating devices.

Household Devices.

FOLDING BEDSTEAD .- M. BENZ, Nashville, Tenn. This invention is an improvement on a previous invention made by Mr. Benz for which he received a former Letters Patent; and the object of his present improvement is which may be readily manipulated with small exertion and carried into and out of position for use without noise or friction.

SHADE-ROLLER ATTACHMENT.-B. F. BELL, Nashville, Tenn. The improvement is in the nature of an attachment for shade-rollers, preferably those of the Hartshorn typethat is to say, rollers in which a hidden spring is wound up by unrolling the shade and is retained so wound up by a pawl or detent engaging the spindle on which the roller proper is mounted.

LOCK FOR EXTENSION-TABLES-A. L. CRANDALL, Hanover, Pa. The object in view of this inventor is to provide novel details of construction, which enable the complete closure of the joint and the positive lock of the main sections of the table in closed position, affording convenient means for effecting such a locked closure and also for releasing the sections of the table when this is desired.

FILING-CABINET .--- T. P. DOLAN, Houtz dale, Pa. The purpose of Mr. Dolan's inven-tion is to provide a cabinet for the convenient and systematic filing of letters, bills, invoices, and all kinds of documents and an accompanying index by means of which documents can be quickly and accurately located in filing, which index can be used for filing purposes if desired; but at such times a sup-plementary index is employed.

Machines and Mechanical Devices,

KNITTING-MACHINE.-S. A. DODGE, Millbury, Mass. The improvement relates to cir- the coupling for an automatic coupled engage cular knitting machines; and its object is to ment with a similar coupling on a car moving provide an attachment arranged to automatic. I on the same track toward the same, and which ally close all the needles for a number of permit two couplings of the improved kind courses to make a plain stitch and to then to be coupled together if positioned on cars close alternate needles for a number of courses, at different heights from the track whereon to form tuck-stitches, and thus produce a the cars move. Furthermore, to afford contubular fabric having transverse alternating venient means for the manual detachment of bands of plain and tuck stitches which give the fabric an exceedingly fine and durable appearance and render the fabric incapable of shrinking unduly when made of pure wool or worsted.

BOTTLE-WASHING MACHINE .--- T. GREBE, washing bottles of that class wherein an end-

WAIST-BELT.-T. GALLERT, New York, N. struction of a yieldable liquid-proof cushion rest, thus making the arms superior to chains. Patented inventions of brass, bronze, composition or Y. The purpose of the invention is to pro-in each bottle-holder of the conveyer, said vide a buckleless belt which will fit snugly to cushion minimizing the shock and preventing because any shortening of one chain caused by kinking or otherwise will throw the whole up aluminum construction placed on market. V American Brass Foundry Co., Hyde Park, Mass. the waist of the wearer, the said belt compris. breakage. Means are provided to permit rapid Inquiry No. 5816.-For the makers of the stamp-ing machine, for stamping on aluminium, called the "Simplex." ward tension of the body on the companion ing a body-section, a front locking-section, and discharge of the washed bottles. chain CASH-REGISTER.-E. H. CHAPMAN, Port a cover-flap for the locking-section so con-TROLLEY-FORK .--- C. G. HARTMAN, Glens Inquiry No. 5817.-For makers of an ice cream reezer consisting of 6 or 8 individual cylinders. structed that it will lie flat in the fastened or Chester, N. Y. In this patent, the invention Falls, N. Y. The objects of the invention fi **Inquiry No. 5818.**—For makers of tattooing ma-chines, also supplies for tattooing. closed position of the belt, remaining in cover relates to improvements in cash-registers of are to so construct the forks or harps as a type in which checks are deposited to visibly position thereon, imparting to the belt the to prevent the working loose or falling out Inquiry No. 5819, -For hand pumps capable of use to 40 pounds pressure, for air receiver. appearance of continuity. indicate the purchase price of goods, the parts of the pin and doing away with the trouble being so constructed that a plurality of de and loss of time in changing and resetting Inquiry No. 5820.-For a good, serviceable, light-draft boat about 20 feet long, for use on the Mississippi PUMP.-W. J. EN EARL, Montevista, Col. posited checks may be at all times in view. In this case the invention relates to improvetrolley-wheels. Pins now in use are fastened Inquiry No. 5821.—Wanted, a practical garbage crematory. The object is to provide a very simple and with set-screws which require the use of tools ments in pumps for general use, and particularly adapted for pumping water from mines inexpensive construction. in resetting them. Mr. Hartman avoids these Induiry No. 5822.-For manufacturers of the Haunted Swing. FRANKENBERG, objections, and sets and adjusts the pin with-ORE - WASHER.-F. or deep shafts, an object being to provide a н. out use of tools, set-screws, cotters, etc., in Inquiry No. 5823.—For manufacturers of sad-irons or flat-irons which are heated by gasoline. pump of simple construction and so arranged Pueblo, Col. In this instance the invention that the packings are wholly protected from fifteen or twenty seconds. Inquiry No. 5824.-Wanted, a 3 h. p. marine boiler. refers to improvements in machines for washsand or grit and may be readily tightened ing ores and similar substances, an object be-DEVICE FOR AUTOMATICALLY OPER-Inquiry No. 5825.-For manufacturers of pile drivers. when necessary without stopping the pump. ing to provide a washer of simple construc-ATING AIR-BRAKES .- T. H. HILLMAN, nquiry No. 5826.-For makers of creosote shin-gles for roofing purposes. Spooner, Wis. This is an improvement in that N. Y. The intention in this improvement is paratively little power. A further object is class of automatic devices in which an adjust-Inquiry No. 5827.-For small fancy tassels made of paper, card, etc. to provide a hook for use in ice-harvesting, to so construct the device that it may be able contact-piece is arranged along the roadcoacting member carried by the train, which member by coming in contact with the contact-thick. and other places, and arranged to permit con- placed and operated at the bottom of a dump, venient pushing and pulling of the ice blocks, where there is no natural flow or pressure to allow of readily changing and grinding the of water.

SHAW, Whitecastle, La. In this patent the to open a valve in the train-pipe and release invention has reference to improvements in | the air therein, so as to apply the brakes. shingle-sawing machines, in which the inventor aims to saw shingles rapidly and economically to the proper tapering shape and complete them in a smooth condition, so that they have the appearance of being planed, this end being obtained by cutting the bolt or billet of wood lengthwise of the grain.

CHANGEABLE-SPEED GEAR.-R. C. KILsumption of gas by the heater being very LAM, Fanst, N. Y. The intention of Mr. economical and the flame confined within the Killam in this improvement is to provide a heater, thus preventing accidental fires. The simple, compact, and durable form of changeinvention relates to heaters, radiators, and able-speed gear wherein the desired change? stoves for heating rooms, vessels, and the from high speed to low speed, and vice versa, like and adapted to be attached to gas-i may be easily and quickly effected by the adjustment of a single lever, which is placed within convenient reach of the operator.

> Prime Movers and Their Accessories. FOR STEAM-BOILERS .- E. L. DEL CASTILLO, Havana, Cuba. In this patent the invention has for its object the provision of novel features of construction and combination of closure and bulletin-boards. parts for a water-feeding apparatus that positively and exactly controls the introduction of water into a steam-boiler so as to maintain the level of water therein at a predetermined height automatically.

ELECTRIC IGNITER FOR GAS-ENGINES. -E. FORD, Wilmington, Del. In this patent igniter for gas and gasolene engines. It belongs to the class known as the "jump-spark" igniter and is automatic in its action. It consists in means whereby the electrodes are held in contact by a spring and are separated by the direct pneumatic pressure of the gases when they reach a certain degree of compression preparatory to explosion.

ROTARY EXPLOSIVE-ENGINE.-C. E. SHUMWAY, Albion, Mich. In this case the invention bears relation to improvements in rotary engines operated by an explosive gas; and the aim is to provide an engine of this character of simple construction and of small dimensions, so that it may be conveniently used for the propulsion of vehicles.

PENDULUM-POWER. - A. T. PRATHER, Douglas, Arizona Ter. The aim of this inventor is to provide a new and improved pendulum-power more especially designed for use on marine vessels, land-vehicles, and the like, and arranged to utilize the swaying motion of the vehicle for actuating an air-pump or like motor.

Railways and Their Accessories.

DUMPING-CAR .--- V. KOUNS, Mokane, Mo. In this patent the invention relates to improvements in side-dumping cars, the purpose being to provide a means whereby all of the cars in a train may be simultaneously dumped, the dumping mechanism being operated from the locomotive, thus resulting in a saving of time in discharging train-loads.

AUTOMATIC RAILWAY-CAR OR WAGON COUPLING AND LOCKER.—W. SKERMAN, Brisbane, Queensland, Australia. The invention refers to car-couplings of the link-andhook type, and aims to provide details of construction for the type indicated which adapt standing or moving coupled cars.

AUTOMATIC CAR-STEP .--- J. L. HINES, Dunn, N. C. In the present patent the inventor bas reference to improvements in foldable steps for vehicles, the same being especially useful on railway passenger-cars in order that the adjustable step may be lowered for pas-sengers to mount and dismount with ease and safety when the car is at rest.

lar conduits of hot-air distributing apparatus, less conveyer is guided to travel through a DUMPING-CAR.—MCKINLEY BOYLE, New and while the trap may be placed for arrest-succession of baths. In the service of ordin-York, N. Y. An object in this case is to pro-Inquiry No. 5814.-For makers of novelties. Manufacturers of patent articles, dies, metal stamping dust at each air-inlet to a room, it may ary machines bottles are sometimes broken, ing, screw machine work, hardware specialties, machine vide a two-way car in which continuous horseery and toois. Quadriga Manufacturing Company, 18 be positioned at the junction of a cold-air and washed bottles accumulate in the final pipe with the lower portion of a hot-air tank too rapidly for removal. The first obarms are used in lieu of horse-chains, whereby South Canal Street, Chicago, there is no variation in the holding-points jection is overcome by the provision of a con-Inquiry No. 5815.—For makers of artificial ice inachines, also for plant erectors. furnace. when the car-body is in normal position or at

JULY 30, 1904.

RAIL-TIE.—F. Gowen, Peabody, Kan. This device can be applied at any place along a track, can be used in soft or sandy roadbeds without sinking, will not require the use of many small articles to keep the track and rails in place, has no right or left hand parts, has no set-gear feature, requires only one tool to apply or remove it, can be removed and replaced without disturbing other ties or the rails, is adjustable to all sizes and kinds of rails and widths of tracks, does away with the use of fish-plates, and will be of even strength throughout its entire length.

PORTABLE WAITING-STATION.-C. TT. KRIEG, SR., Nashville, Tenn. The object in this case is to provide a portable knockdown waiting-station for use of passengers on steam or electric railroads and which may also be used as a summer-house, telephone-station, or AUTOMATICALLY-REGULATED FEEDER photograph-booth, the inventor's idea being to utilize it at the same time for purposes of advertisement by making the walls to subserve the double purposes of a protective in-

Designs.

DESIGN FOR A TRIMMING .- S. ISAAC, New York, N. Y. The design in this instance is a strip of material composed of figured bands five in number. The bands are spaced the improvement is in the nature of an electric | slightly apart and joined by corded loops, the open-work giving a pleasing ornamental effect.

> 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 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 manu-facture these goods write us at once and we will send you the name and address of the party desir-ing the uformation. In every case it is neces-sary to give the number of the inquiry. MUNN & CO.

Marine Iron Works. Chicago. Catalogue free. Inquiry No. 5804.-For makers of spring motor fans.

AUTOS.-Duryea Power Co., Reading, Pa.

Inquiry No. 5805.-For makers of machines for cleaning carpets of all kinds, dry and steam cleaning. "U.S." Metal Polish. Indianapolis. Samples free.

Inquiry No. 5806. – For machinery for making ugs from old carpets.

Perforated Metals. Harrington & King Perforating Co., Chicago.

Inquiry No. 5807 .- For a self-heating smoothing iron.

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

Inquiry No. 5808.-For makers of cyanide plants. If it is a paper tube we can supply it. Textile Tube Company, Fall River, Mass.

Inquiry No. 5809. -For makers of fans run by clockwork. Sawmill machinery and outfits manufactured by the

Lane Mfg. Co., Box 13, Montpelier, Vt.

Inquiry No. 5810.—For machinery for making botato flour or starch. WANTED .- Exclusive sale improved automobile spe-

cialties. Specialties. Box 773, New York. Inquiry No. 5811.—For parties to make tool or rucible steel tubing 4 inches in diameter.

In buying or selling patents money may be saved and time gained by writing Chas. A. Scott, 340 Cutler Building, Rochester, New York.

Inquiry No. 5812.-For machinery for cleaning currants.

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. 5813.—For makers of machinery for making and marking tin cans.

We manufacture anything in metal. Patented artieles, metal stamping, dies, screw mach, work, etc., Metal Novelty Works, 43 Canal Street, Chicago.

7.E Notes and Queries.

HINTS TO CORRESPONDENTS.

Names and Address must accompany all letters of 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.

Buyers wishing to purchase any article not adver-tised in our columns will be furnished with addresses of houses manufacturing or carrying the same same.

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Scientific American Supplements referred to may be had at the office. Price 10 cents each.

Books referred to promptly supplied on receipt of Minerals sent for examination should be distinctly marked or labeled.

(9435) H. W. M. asks: 1. How many pounds of magnet wire are used in the mak ing of an induction coil for one-inch spark What numbers of wire are used on the pri mary and secondary coils? How thick is the core, and which is wound on first, the secondary or primary coil? Which is used single silk-wound or double silk-wound wire? What is the lowest voltage that can be used and what is the highest voltage that can be used without injuring the coil? How many layers of primary and secondary wire are used, and how many wires long are they? A. An induction coil giving an inch spark can be made from 11/4 pounds No. 36 silk covered copper wire, if properly wound. The primary may be No. 14 cotton covered magnet wire wound in three layers. The core may be 7 inches long and 3/4 inch in diameter. Single silk will doubtless answer for the cover ing, and double cotton. All wires are to be theroughly saturated with paraffine. The primary is first wound, as its name implies. We would advise that you buy Norrie's "In duction Coils," which we can furnish for \$1, and study the subject carefully, or you may waste costly material and get little for your pains, since you do not seem to have had much experience in such work. Q. How many men are equal to one horse-power, the men being of average weight? A. A man may be taken at from 1.10 to $\frac{1}{28}$ of a horse-power for a day's work. For a few minutes a man can do more work than that.

(9436) A. P. G. asks: Several cells of dry battery were attached to a common electric bell, such as is used for door bells; the wire was then cut and the ends immersed in a dish of water, and the bell refused to work. Water being a conductor, why would it not carry the current and ring the bell? A. Water is not a good conductor of electricity, and there is no reason why an electric bell should ring when the wires are cut. Water is used as a resistance to prevent the flow of electricity in heavy currents. A water rheostat is a common device for this purpose. Thompson gives the resistance of pure water as more than a million times as great as that and Scythe. The snob, the hypocrite, the op of copper. Ordinary water has not so great pressor, have the feet cut from under them a resistance as this, but it has enough to pre vent it from being classed as a conductor.

(9437) E. B. asks: Will you please inform we whether the south magnetic pole is of the same spienzill as the north magnetic That is, is the earth the same as a bab magnet, having its two poles at the north and south magnetic? Also, when a ship is sailing south, before it crosses the magnetic equator is the compass affected by the north magnetic pole, and after crossing the magnetic equator is the compass then affected by the south magnetic $p \bullet le$? A. The location of the south magnetic $p \bullet le$ of the earth has never been determined with precision. An expedition is now engaged in the effort to locate the north magnetic pole. It is prepared to be ab-sent three years. We may on its return have definite knowledge concerning the matter. At present we can only say that the north magnetic pole is in British America, to the north of Hudson's Bay. The two magnetic poles are of the same strength. The earth behaves magnetically as if it had a bar magnet within it some 4,000 miles long, making an angle with its axis, and this magnet slowly oscillating, causing the declination of the needle. Both poles of this magnet attract and repel magnetic needles on the surface of the earth. This AND attraction and repulsion are not affected by the I See n position of the compass. If it is in the northern hemisphere, the north pole attracts its north and repels its south end, and the south Acid (Acid, th pole of the earth does the same. So also a compass in the southern hemisphere is affected Acid, Adding Aerati by both the north and the south pole of the earth. The dip of a compass needle is affected Alam by the pole to which it is neaver. In the Anthr northern hemisphere the north end of the needle dips, and in the southern hemisphere Axles, be Bag b the south end of the needle dips, but the Bag b Bag h swinging of the needle in a horizontal plane Big no Baling Baths, M is not caused by the pole of the hemisphere in which the needle is, to any greater extent than by the other pole of the earth. Batte

Anvil,

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or which detters rutent or the	Eyeglasses, W. W. Dow	Paper serving fixture, toilet, C. E. Mc.	
	Facial wrinkles, device for eradicating, W.	Gown	765.588
United States were Issued	B. Hargrave 765,361	Paper tube rolling machine, H. J. Hurd .	765,429
	Farm gate, O. S. Hendricks 765,250	Pastry tester, L. F. Ferrell	765.571
	Feed trough, C. Johnson 765,242	. Pianos, tune sheet attachment for auto-	
for the Week Ending	Feeding machine and printing press controll-	pneumatic, A. Hobart	765.240
8	ing mechanism, T. C. Dexter 765,414	Pick, G. Tippett	765,642
	Fence tool, L Stripe The The Providence The State	Picture apparatus, moving, G. L. Jenkins	765,580
July 19, 19 0 4	Fence, wire, S. G. Shaw 765,256	Picture exhibiting device, G. L. Jenkus,	765.621
• • • • •	Fiber strip, I. II. Goodman	Pictures, composition for treating, H. E.	
EACH BEARING THAT DATE	Filter, pressure, G. W. Gerlach 765,277	Ifall	765 577
	Filter strainer, J. M. Davidson 765,334	Pictures, producing,* M. M. Fields	765.275
te at end of list about comes of these natents 1	Fire alarm system, automatic, J. C. Howe. 765,386	Pill safe, pocket, J. W. Acker	765,538
to de end er hat abedt copies of these patents.	Fire extinguishers, means for holding acid	Pillow, cushion, etc., J. H. Sperry	765,51.9
	bottles in hand, G. U. Downing 765,379	Pipe. See Tobacco pipe.	
stor and making same sulfo Sapper	Firearm, recoil operated. R. H. Kjellman. 765,491	Pipe jack, V. Kohout	765,364
Roubold 765 597	Fireproof theater, J. Schlly	Pipe joint and forming same, T. H. Mil	
making omega evanmenthyl an-	Fishing bait, artificial, W. A. Hardy 765,482	son	- 70a, 430
ranilic. O I Grand 765 576	Fishing device, M. F. Mangelsdorff 765,433	Pipe joint, compensating, L. Hochstein.	765,451
making sulfillie A. L. Stinville 765 520	Fishing reel, W. Carter 765.554	Pipe joints, construction of, T. H. Milson	765,437
machine R F Wester 765,520	Fixture, F. Beloin	Pipe wiench, C. F. Leavitt	766,580
ng regulator E Brogniag 765.548	Flag case and pole, G. I. Herrick 765,427	Plant support, II. Thaden	7166,404
device (; M Mayor 765.425	Flea trap, F. C. Esmonin	Planter attachment, wireless corn, F. R.	
unfin, making, Schmidt & Tust 765 201	Fille cleaner, J. McComb	Bergheld	705,352
C. W. Moser	Folding box, J. H. Fowler	Planter, check row, A. L. Perkins	765,296
atic regulator, T. E. Hunt. 765 428	Form, uress, O. Borchert	Plating, nickel, J. W. Avlesworth	765,371
etc nillow or bush for vehicle. Mon-	Fountain. See Sola fountain.	Plow and chopper combined, cultivating,	-0- 101
ig & Forsans 765.366	Fruit jar, 19, 5. rearry 105,410 Ernit processing device C. F. Floming 705,991		705,401
older or stand, C. W. Lannher 765,358	Finit processing device, C. F. Flenning 100,551	Poeket knile, E. Kautmann	765,285
olding apparatus, C. T. Holman 765 558	Fue garmont L. Coschicktor 765 619	Penceman's club, J. A. wade	705,005
press, R. P. White 705.5721	Fur gardiene, D. Orseinekter	Dutate diama II II fand	705 594
preparing compositions for sulfur, W.	Gage. H. S. Cardiner	Datato digging machine C. I. Moulton	785 565
atzka	Garment, S. J. Kempin	Disting apparents blue T H Wagan	10.0,000
y transmitter, R. Hansen,	Carment, J. A. Seriven	house house	705 400
100,100	Guiment,		100,400