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.

Marine Iron Works. Chicago. Catalogue free. Inquiry No. S148.—Wanted, addresses of manu-acturers of small articles which sell retail at from I to

"U.S." Metal Polish. Indianapolis. Samples free. Inquiry No. 8449.—Wanted, a sharpener for mowing machines.

For bridge erecting engines. J. S. Mundy, Newark, N. J. Inquiry No. 8450.—Wanted, rivets for use on deformity braces.

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

Inquiry No. S451.—For manufacturers of gas engine indicators.

Spon & Chamberlain, 123 S. A. Liberty Street, N. Y.

Inquiry No. 8452.—Wanted, manufacturers of frost-proof shipping cases for shipping vegetables such

I sell patents. To buy, or having one to sell, write Chas. A. Scott, 719 Mutual Life Building, Buffalo, N. Y. Inquiry No. S453.—Wanted, the name of the manufacturer of a bolt clipper called the "Champion." Metal Novelty Works Co., manufacturers of all kinds of light Metal Goods. Dies and Metal Stampings our Specialty. 43-47 S. Canal Street, Chicago.

Inquiry No. 8454.—Wanted, a brush for cleaning soiled or stained oranges.

The celebrated "Hornsby-Akroyd" safety oil engine. Koerting gas engine and producer. Ice machines. Built by De La Vergne Mch. Co., Ft. E. 138th St. N. Y. C.

Inquiry No. 8455.—Wanted, an apparatus using denatured alcohol for heating and lighting.

Inquiry No. 8456.—Wanted, a small battery and motor outfit adapted to run a sewing machine.

Manufacturers of patent articles, dies, metal machine work and special size washers. Quadriga Manufacturing Company, 18 South Canal St., Chicago.

Inquiry No. 8457.—Wanted, name and address of the manufacturer of the Thomas Arithmetic Machine. Inquiry No. 8458.—Wanted, manufacturers of selenium cells

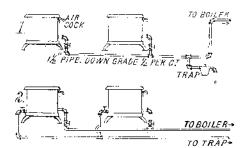
Inquiry No. 8459.—For manufacturers of a machine for making wooden meat skewers.



HINTS TO CORRESPONDENTS.

Minerals sent for examination should be distinctly marked or labeled.

to heat radiators as here shown (Fig. 1)? municate over 3 miles of water. Use only one pipe, which drops 8 inches in 150 feet to a trap. Attach live steam at 80 pounds pressure between trap and radiators and have air cocks on top of each radiator.



A. We think that it would be possible to heat much better system, however, is shown in accompanying sketch (Fig. 2).

(10193) C. E. D. writes: Your conclusion about the spoon in the freezing mixture you assume. You ought to be able to get chipped ice at any soda fountain, which, lib-

motionless for a second or two, the ice will reeze to it firmly and in large amount. Try it yourself. The reason for this behavior, that I had matches in my pocket I reached in which I have observed so often, is what I am again, took the watch out, and saw that the seeking for. A. Silver is by far the best con- watch was covered with small spots. ductor among the metals. Its specific heat is were no matches in the pocket. I dropped the small. From these two facts it may be in- matter, thinking there must have been some ferred that a hot spoon will soon cool to the there on the previous day, but when I put on temperature of ice, and will melt a little but my woolen gloves the same light appeared on not much ice in cooling through a wide change the tips of the fingers of the gloves. On some of temperature. A cold spoon on the other fingers it was about an inch in the air, aphand will not melt any ice. Now the thin parently suspended from a loose hair. Looking film of water melted by the hot spoon is quick- down into the boat I saw that there was no ly frozen again in the mass of ice, and in freezing attaches the spoon to the ice, since the film of water is in contact with the spoon which melted it from the ice when the spoon was could not believe that my observation was corthrust hot into the ice. The ice is thus frozen rect. I verified it, however, by holding my thrust hot into the ice. The ice is thus frozen to the spoon. Now the cold spoon thrust into hand out to my companion and having him the ice comes to the temperature of the ice, and point to the lights where he saw them, which melts no ice. There is no reason why it was exactly in the same places where I saw should have ice attached to it. There is no them. When he raised his gun in the air vermake Alcohol from Farm Products.—New book, \$1.00. for the ice to freeze to the cold spoon. Chipped on moving nearer I could see it distinctly. ice and fruit juice is not a freezing mixture as you imply. Its temperature cannot be in the open air below the freezing point of water. It cannot of itself freeze the spoon to the ice, nor would the spoon freeze to the ice unless the ice was quite dry.

(10194) B. B. calls our attention to an error in the comparison of the sensitiveness of ordinary lantern-slide plates with that of carbon velox, appearing in Query No. 10775 of the October 13 issue. It is stated in the answer to this query that lantern-slide plates are no more sensitive to light than the ordinary carbon velox. Our correspondent considers this reply incorrect, and states that a lantern-slide plate is about twenty times faster Headquarters for new and slightly used machinery, than ordinary carbon velox paper. He finds Liberty Machinery Mart, 138 Liberty Street, New York, that with a negative of ordinary density placed twelve inches from a lamp, only about one second or even a fraction of a second is required to secure a good impression, using stamping, screw machine work, hardware specialties, the ordinary standard developer, while for a velox carbon print something like twenty seconds, with a negative at the same distance from the lamp, would be needed.

(10195) V. B. A. asks: 1. How many volts does a 500-ohm induction coil give with two dry batteries in the primary? A. The output of an induction coil is not rated in volts, but in the length of spark which it will give. You say "a 500-ohm induction coil." We do not know what that means. The voltage in the secondary of a transformer is obtained by multiplying the voltage of the primary current by the ratio of the windings in the secondary to those of the primary. You may get an idea of the effect you can obtain with two dry cells. These have about 15 volts each. You have 3 volts at your disposal. 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.

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

Special Witten Information on matters of newcond. the same.

Special Written Information on matters of personal rather than general interest cannot be expected without remuneration.

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

Books referred to promptly supplied on receipt of price.

Would it require for wireless communication terial can stand it; nor down way magnificant for examination and the secondary, and the secondary, till the distinction of the primary from the secondary, till the distinction of the primary from the secondary, and the secondary is controlled in diameter at 50,000 revolutions per second.

A. It is very safe to say that no glass disk could hold together to be revolved at anything the primary from the secondary, till the distinction of the primary from the secondary. The distinction of the primary and the secondary is controlled in diameter at 50,000 revolutions per second.

A. It is very safe to say that no glass disk the primary and the secondary, till the distinction of the primary and the secondary is controlled in diameter at 50,000 revolutions per second.

A. It is very safe to say that no glass disk to the primary and the secondary, till the distinction of the primary and the secondary is controlled. would it require for wireless communication for 3 miles, and what Supplement describes it? A. Supplement 1527 describes a coil giv-(10192) H. W. L. says: Is it possible ing a 4-inch spark, which will probably com-

> (10196) A. H. asks: Having tie rods of ¾ iron running through storage battery rooms, tried to overcome the action of acid fumes by covering them with alphaltum, but find it is not invulnerable. A. There is nothing better than asphaltum to withstand the corrosive action of acids. When it gives out, put

(10197) F. W. L. asks: Will you please explain where we get the right or authority for the use of the cross in place of the word number. Have never seen in any publication, either book or otherwise, any explana-tion of its use. A. We are not able to trace the origin of this very useful sign. Perhaps some one of our numerous readers may have some information upon this matter.

radiators in the manner in which you describe, mathematics, but have to work daytime, and phenomenon: The moon appears larger when provided the proper apparatus is installed. A only at nights I can study. I have tried hard near the horizon than at the zenith. A. The to solve the following problem by calculus, but have been unable to get the correct answer. Will some of your able readers kindly explain in your Notes and Queries and oblige? The problem is as follows: In a given rectangle sounds rational. If the facts had been as you 20 feet long and 10 feet wide, to lay another ten degrees toward the horizon. A sextant

erally flavored with sugar and fruit juice, is explanation for the following phenomenon? there are many intervening objects. Distances pleasant eating on hot days. You can there. While out hunting last week at half-past five fore both experiment and refresh yourself at in the morning a severe snow storm came up. the same time. I again repeat that if the We were on a small lake about a quarter of spoon is cold (as it can be readily made by a mile from shore. It was still quite dark. stirring the mixture), ice will scarcely freeze My companion called my attention to a "light" to it if allowed to stand still in the mixture on the end of his gun. I did not see it from omical instrument the moon measures a trifle for a while; but if the spoon, warm from my end of the boat. A few moments later I larger when in the zenith, since then it is the mouth, gas jet, or other source of heat, is reached in my pocket to get my watch, and I nearly 4,000 miles nearer to us, than when it inserted in the mixture, and allowed to stand saw that on each of my fingers there was a is on the horizon.

touched with a phosphorus match. such light on my feet, but when I raised my foot higher than my head it appeared there. I have never seen anything like it before and Once I thought that I smelled ozone, or the characteristic odor of the static machine, on drawing my hand nearer my face. Of this I am not quite certain. I have never seen or heard of anything similar to this and would be obliged to you if you could inform me what it was. A. Your observations concerning the electricity in the air during the storm when you were in a boat are interesting. Sailors call the light seen in this way St. Elmo's Fire. It may be seen in storms at night on the tips of the spars of ships. You will find it described in books. The air was so highly charged with electricity that it charged your person by induction, and fire streamed from the tips of all articles about you. While your feet were below the gunwale of the boat no discharge could take place from them, since electricity does not readily enter the interior of hollow things, but when you raised your foot above the edge of the boat the fire of the discharge appeared upon the tip of your boot.

(10200) C. L. M. asks: 1. In "Home Mechanics for Amateurs," a description is given for making an electric furnace to be used with a 110-volt lighting system current with 20 feet of German-silver wire used for resistance. With a 250-volt circuit how many feet would be required? A. The furnace in "Home Mechanics" uses three arcs. With 250 volts a proportionate number of arcs are required. We should, however, use only 5 arcs with 250 volts and 50 feet of wire. 2. It also states that six or eight 32-candle-power lamps might be used for resistance. If these were used on the 250-volt circuit, how many would be required? A. If your 32-candle-power lamps are for 250 volts, no more will be needed than for 110 volts. You cannot use 110-volt lamps single on a 250-volt circuit. They will burn out. Two can be put in series with a resistance added to take up 30 volts. 3. Could an arc be run with a storage battery? A. An arc light can be run with storage battery by having half as many cells in series as the voltage used by the arc, namely, 25 cells.

(10201) H. B. M. asks: 1. Would it be possible to revolve a glass plate 20 inches terial can stand it; nor do we know any machine which produces this velocity. 2. A transformer having 400 turns in its primary of No. 14 B. & S. with a core 15 inches long and 21/4 inches in diameter, and 800 turns of No. 28 B. & S. in its secondary; the primary is excited with an A. C. of 100 volts, 60 cycles. What ought the secondary voltage be? It is used as a step-up transformer. A. A transformer with 400 turns in primary and 8,000 in secondary will raise the voltage of the primary twenty times. Thus 100 volts primary will become 2,000 volts in the secondary. 3. I have an induction coil which gives a spark of 2 inches when operated on D. C., but when the vibrator is screwed down and a suitable A. C. is passed through, it gives little or no spark at all. What is the trouble? A. We are not able to tell you what the trouble is in the action of the alternating current on your induction coil. The current may not be as "suitable" as you think it is.

(10202) J. B. asks: Please be so kind rolanation of the following moon appears larger when near the horizon than all other heavenly bodies and measurements on the surface of the sky. From the horizon ten degrees up toward the zenith is apparently much farther than from the zenith assume, I would never have written in the first rectangle diagonally, the inner rectangle to be place. Unfortunately for your view of the place. Unfortunately for your view of the place; what will be the maximum ures the same in any part of the sky. It is matter, the facts are as I stated and not as length? crease in apparent distances is merely an op-(10199) E. R. asks: Can you give an tical illusion. All distances seem longer if on the surface of the ocean or on a treeless plain are thought to be less than if there are objects scattered along the way. This idea is well worked out in Todd's "New Astronomy," which we can send for \$1.50. To an astron-

small luminous spot, as if the finger had been INDEX OF INVENTIONS

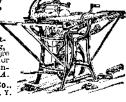
For which Letters Patent of the United States were Issued for the Week Ending October 30, 1906.

AND EACH BEARING THAT DATE [See note at end of list about copies of these patents.]

ı	<u> </u>	рассиев
e	Acetylene generators, feeding mechanism for, L. E. Shaw	n . 834,328
-	Acid, apparatus for making nitric, O. H	. 00*,020 [.
3	U. Brunler	. 834,257
)	Logar	. 834,825
_	Logar Aerial flight, means for, O. Chanute Aerial transportation system, marine, J. E	. 834,658 3.
i	Clarke	. 834,871
-	Air drying apparatus, C. O. Williams	. 834,343 . 834,698
7	Clarke Air brake apparatus, Turner & Wright Air drying apparatus, C. O. Williams Amusement apparatus, E. A. Lynde Amusement or advertising device, Brad	. 834,389
ı	shaw & Thomson Angles, adjustable teel for constructing, J	834,707
1	Angles, adjustable tool for constructing, J V. Petrusich	. 834,638
7	Animal trap, R. J. Scott	. 834,415 . 834,705
-	Animal trap, R. J. Scott. Arbors, holder for main wheel, C. E. Berry Ash pan, L. W. Myers. Automebile alarm signal, Cook & Hafner. Automobile operator's garment, E. Wenig	. 834,705 . 834.630
i	Automobile alarm signal, Cook & Hafner	. 834,630 . 834,562
•	Automobile operator's garment, E. Wenig mann Ax edge protector, W. L. Marble. Ax le, automobile driving, C. U. Haynes. Ball shire automatic, J. F. Fullum. Ball shire automatic, J. F. Fullum. Ball cabinet, electric light, H. H. Roberts Bed, folding, V. J. Gillett Bed, folding, W. A. Williamson Bed, folding, W. A. Williamson Bed, folding, W. A. Williamson Bed, folding, V. P. Reily Belt and suspenders, revolver, B. F. Stewar Belt shifter, I. S. Newton. Belt shifter, I. S. Newton. Belting, leather, W. Coupe. Bench clamp, J. H. Peick. Billiard table, convertible, T. R. Treiber. Binder, loose leaf ledger, R. B. Wilson. Biscuit cutter, E. Woelke Bit and briele attachment, T. B. O'Connor Blanks, drawing, J. H. Gault Bloev. of device for condensation water, automatic, L. Fondu Blowing engine, J. Fawell	- . 834,502
9	Ax edge protector, W. L. Marble	. 834,628
1	Axle lubricator, automatic, J. F. Fullum	. 834,574 . 834,289
Ĺ	Balers, block inserter for hay, F. A. Rythe	r 834,325
ľ	Bath cabinet, electric light, H. H. Roberts	r 834,325 . 834,723 . 834,755 . 834,357
	Bed cover support, L. E. Bleckley	. 834,357 . 834,293
L	Bed, folding, W. A. Williamson	834,786
•	Beer case hinge, J. P. Reily	. 834,477 . 834,491
	Belt and suspenders, revolver, B. F. Stewar	. 834,491 t 834,41 9
3	Belt. Woven, C. P. Landreth	. 834,532 . 834,386
ı	Belting, leather, W. Coupe	834,361
i	Billiard table, convertible, T. R. Treiber.	. 834,4 02 . 834,693
	Binder, loose leaf ledger, R. B. Wilson	834,435
•	Bit and bridle attachment, T. B. O'Connor	834,437 834,843
l	Blanks, drawing, J. H. Gault	. 834, 29 1 . 834, 8 47
•	Blow-off device for condensation water, auto	- 004,041
١.	matic, L. Fondu	. 834,286 . 834,512
۱ :	Boiler, F. S. Gulick	. 834,797 . 834,377
	matic, L. Fondu Blowing engine, J. Fawell Boiler, F. S. Gulick Boiler stand, range, C. H. Foster. Boiler tube and flue scraper or cleaner steam, C. S. Dean Boiler tube cleaner, automatic, A. F	, oo±,ŏ11 ,
. :	steam, C. S. Dean Boiler tube cleaner, automatic, A. F	834,459
	Krause	. 834,306
	Krause Bolster, body, C. A. Lindstrom. Bottle, non-refillable, Davis & Finch. Bottle, non-refillable, C. Williams Bottles and the like, locking means for, G Wedderburn	834,311 834,510
,	Bottle, non-refillable, C. Williams	834,544
;	Wedderburn	834,500
ì	Bottles, tubes, containers, etc., stepper for,	004.000
	Bex cover holder, adjustable, J. M. Purdum,	834,679 834,4 8 9
i	Bottles, tubes, containers, etc., stopper for, C. C. & W. S. Newton. Box cover holder, adjustable, J. M. Purdum. Brake apparatus, lead, Clark & Turner. Brake beam, E. R. Imman. Brake mechanism, Woodman & Bridges. Brake red jaw, L. A. Hoerr. Bridge, truss, J. Imman. Brooder, R. M. North. Brooder, G. Cramer. Brush, E. K. Warren. Brush, E. K. Warren. Brush, bale, W. Ross, Sr. Buckle, bale, W. Ross, Sr. Buckle, harness, E. B. Hale.	834,263
П	Brake mechanism, Woodman & Bridges	834,855
, ,	Brake red Jaw, L. A. Hoerr	834,727
i	Brooder, R. M. North	834,401
!	Brooder, G. Cramer Brush, E. K. Warren	834,450 834,853
,	Brush, polishing, R. Crever	834,363
	Buckle, bale. W. Ross. St	834,305
ł	Buckle, harness, E. D. Hale	834,296
i	Building block, F. Fournier	834,610
i	Building block molding apparatus, A. Nelson	834,632
i	Burglar alarm, C. H. Joy	834,736
i	Butter mold or tray, E. J. Luhman	834,826
i	Button fastener, L. P. Hazen	834,802
i	Button, tufting, F. A. Neider	834,4 00 834,768
i	Calking material, H. Japp	834,731
Ì	Car combination freight and dump, A.	834,248
ı	Lipschutz	834,824
	Buckle, bale, W. Ross, Sr. Buckle, harness, E. B. Hale Buckle, trace, H. Jehnsen Bulding block, F. Fournier Bulding block molding apparatus, A. Nelson Bulletin board, B. Peritz Burglar alarm, C. H. Joy Butter mold or tray, E. J. Luhman Button, cuff, G. Krementz Button fastener, L. P. Hazen- Button, tufting, F. A. Neider Cable grip, J. S. Sparks. Calking material, H. Japp Car bolster, J. B. Barnes Car, combination freight and dump, A. Lipschutz Car coupling, H. T. Krakau Car coupling, H. T. Krakau Car coupling, H. T. Krakau	834,833 834,717
	Lipscantz S34,823, Car coupling, H. T. Krakau Car coupling, L. P. Mather. Car fender, F. M. Frederick Car handling and dumping apparatus, W. W. Keefer, reissue Car stake, A. W. Bagley Car stake, adjustable, R. V. Sage. Car unequaling mechanism H. F. Papa	834,717
:	W. Keefer, reissue	12,550
	Car stake, A. W. Bagley	834,7 0 2 834,413
	Car uncoupling mechanism, H. F. Pope	834,321
	Car underframe construction, A. Becker	$834,654 \\ 834,761$
i	Car wheel, J. Stuart	834,771
ı	Car stake, adjustable, R. V. Sage. Car uncoupling mechanism, H. F. Pope. Car underframe construction, A. Becker. Car wheel, C. T. Schoen. Car wheel, J. Stuart. Car wheel, J. Stuart. Car wheel, noiseless, I. Hegeland. Car wheel shoe, A. Harris. Carbureter, R. H. Gray Carbureter, C. O. Williams Card, record or index, C. W. Gremple. Carpenters' benches, work support for, J. Behringer	834,761 834,771 834,473 834,298
ı	Carbureter, R. H. Gray	834,614 834,697
ı	Card, record or index, C. W. Gremple	834,294
İ	Carpenters' benches, work support for, J. Behringer	834,703
i	Carpet stretcher, E. Poirot	834,703 834,535 834,34 6
i	Cell, precipitating, W. A. Hendryx	834,575
	Cement, Neuburger & Witz	834,633
:	Behringer Carpet stretcher, E. Poirot Carving machine, C. S. Van Acker. Cell, precipitating, W. A. Hendryx. Cement, Neuburger & Witz Cement, Neuburger & Witz Cement and the apparatus therefor, manufacture of hydraulic, B. Enright. Centerboard, D. M. McLean Centrifugal separator, N. S. Bok Chair, J. Flindall	834,374
	Centrifugal separator, N. S. Bot-	834,84 0 834,254
	Centrifugal separator, N. S. Bok. Chair, J. Flindall Chair lounge, J. Flindall Chart, skirt drafting, Schrader & McCullough Chest for mechanics' tools, carrying, N. S. Greve	834,254 834,376 834,285
	Chart, skirt drafting, Schrader & McCul-	os4,280
	lough	834,762
į	Greve Chuck, G. Rethenbucher	834,721
į	Chute, spiral, W. D. Gray	834,721 834,492 834,72●
!	Clay product drier, R. W. Lyle	834,584 834,667
Í	Chute, spiral, W. D. Gray. Clay product drier, R. W. Lyle. Cleaning device, C. E. Flynn. Clevis for plows, yielding, F. M. Rutten. Clock, secondary electric, H. Campiche.	834,412
	Clothes hanger, A. J. Butler	834, 70 8 834,868
1	Clothes connect extensible. (). I Wads-	
١	worth Clutch, T. H. Worrall Clutch and speed controlling device, S. W.	834,595 834,85 7
İ	Clutch and speed controlling device, S. W. Wardwell	834,778
١	Clutch device, T. L. & T. J. Sturtevant	834,499
	Coaling ships from colliers, apparatus for.	83 4,7 8●
	Wardwell Clutch device, T. L. & T. J. Sturtevant Coal handling implement, N. E. Watson Coaling ships frem celliers, apparatus for, C. G. C. Taylor Cock, angle, W. W. Wiggs Coil former, J. W. Lundskog Coils cover for locating H. F. Albeight	834,335 834,429
ļ	Coil former, J. W. Lundskog	834,48●
	Comb, case for loading, in F. Midlight	834,352
	Hess	834,805
	Colm setting and stacking apparatus, C. F. Hess Collar, horse, L. P. Ey. Colledion and recovering the solvents of nitrocellulose or cellulose, machine for producing threads from, M. Denis. Coloring matter fer producing silk-like or pearl luster effects, L. Lilienfeld. Column, veneered, H. L. Manning. Composition of matter, M. W. Belque Congustion of matter and making same, D. Genese.	834,794
	nitrocellulose or cellulose, machine for	894 40 =
	Coloring matter for producing slk-like or	834,46●
	pearl luster effects, L. Lilienfeld	834,739 834 391
	Composition of matter, M. W. Belque	$834,391 \\ 834,252$
	Genese	834,718
	Genese Compressors, unloader for compound, F. V. Lengacre Compressors, unloader for single acting, F.	,-
i	Lengacre	834,627
1	V. Longacre	834,626
i	V. Longacre Countain	834,514 834, 6 87
ĺ	Conduits, base for supporting switches and the like upon. Sibley & Lutz	834,686
1	Conduits, means for holding receptacles and	-
!	Controlling device R C Lamme	834,829 834,582
,	controlling we vice, D. G. Damme	004 550
	Controlling device, S. W. Wardwell	834,779 834 553
	Controlling device, S. W. Wardwell. Copy holder, C. M. Bartlett Copying press, G. Bluen	834,553 834,657
	Controlling device, S. W. Wardwell	834,553 834,657 834,603
	Conduits, base for supporting switches and the like upon, Sibley & Lutz Conduits, means for holding teceptacles and the like to, G. A. Lutz Controlling device, B. G. Lamme Controlling device, S. W. Wardwell Copy holder, C. M. Bartlett Copying press, G. Bluen Corkscrew, hand, M. A. N. Ansley Corn gathering and husking machine, I. J. Ball Corset stiffener, E. K. Warren	834,553 834,657 834,603
•	Controlling device, S. W. Wardwell	834,553 834,657 834,603

Couch, B. Weinberg	Wood-working
Couch, convertible A. Wheatley \$8,427 Cowl and ventilator, H. V. Ackert \$34,551 Cream separator, T. A. Davis \$34,551 Crushing and grinding mill, G. C. Little \$3,887 Cucumber picker, G. W. Newton \$34,531 Cultivator, L. Q. Spaulding \$34,332 Cultivator, F. Wolf \$34,650 Cultivator and weeder, corn, C. H. Mattenth ***S34,834	Machinery
Crushing and grinding mill, G. C. Little 83 4887 Cucumber picker, G. W. Newton 834,531 Cultivator L. O. Spaulding	For ripping onor out
Cultivator, F. Wolf	ting, mitering, grooving, boring, scroll-sawing edge moulding, mortising; for
thews 834,834 Cutter head, A. F. Heckel 834,299 Dehydrating apparatus, E. W. Cooke 834,265 Dental and surgeon's cabinet, W. C. Wol-	working wood in any man- ner. Sent for catalogue A. The Seneca Falls M'f'g Co
10rd	195 Water St., Seneca Falls, N. Y.
Dentifrice, H. C. G. Luyties	Engine and Foot Lathes
Die stock, adjustable, B. Borden, 834,454	MACHINE SHOP OUTFITS, TOOLS AND
Digger. See Potato digger. Disk drill, C. H. Pelton. 834,630 Disk. rotary. M. Mitchell 834,835	SUPPLIES. BEST MATERIALS. BEST CATALOGUE FREE SEBASTIAN LATHE CO., 120 Culvert St., Cincinnati.O.
Disk, rotáry, M. Mitchell 834,838 Display reel, T. A. K. Oren 834,318 Distilling apparatus, turpentine, J. G. 924,750	· · · · · · · · · · · · · · · · · · ·
Saunders 834,759 Bistilling turpentine, J. T. Denny 834,875 Ditching machine, J. H. Sylvestersen 834,645	_veeder _ S1.00
Door check, A. McKenzie	Counters
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Garment hanger, Barrell & Knight 834,652 Garment support, A. H. Hawk 834,725 Gas, apparatus for manufacturing producer,	With a Progress Spraying and Whitewashing Machine. One man can apply whitewash or
Adams & Powell	cold water point to 10,000 square feet of surface in one day and to better work than with a brush. It is also adapted for
Gas, apparatus for the manufacture of filuminating, Adams & Powell 834,239 Gas engine and valve mechanism therefor,	The same of the sa
A. Dina 834.566	spreading disinfectants,
A. Dina 834,866 Gas generator, acetylene, J. Margreth 834,831 Gas, manufacturing illuminating, Adams &	spreading disinfectants, destroying insect pests and diseases on trees, vegetables and other
A. Jina 834,696 Gas generator, acetylene, J. Margreth. 834,831 Gas, manufacturing illuminating, Adams & Powell 834,241 Gas meter, V. P. Wilkins 834,854 Gas retort discharging apparatus. E. Cher-	spreading disinfectants, destroying insect pests and diseases on trees, vegeta bles and other plants, extinguishing tres, washing windows,
A. Jina 834,696 Gas generator, acetylene, J. Margreth. 834,831 Gas, manufacturing illuminating, Adams & Powell 834,241 Gas meter, V. P. Wilkins 834,854 Gas retort discharging apparatus. E. Cher-	spreading disinfectants, destroying insect pests and diseases on trees, vegetables and other plants, extinguishing them, washing windows, wagons, etc., and other purposes. The machine is really a little water works system on wheels seease the easy
A. Jina	spreading disinfectants, destroying insect pests and diseases on trees, vegeta bles and other plants, extinguishing flees, washing vindows, wagons, etc., and other purposes. The machine is really a little water was a setton wheele seconds the easy movement of the pump develope wheele seconds the easy movement of the pump develope wheele seconds the easy movement of the pump develope wheele seconds the easy to pounds, and will rate the liquid nore than 80 feet above its own level. The Progress, 12 gallon size, costs only \$21.00: the 28 gallon size, \$20.00. It will last a lifeting and pays for
A. Jina S34,856 Gas generator, acetylene, J. Margreth. S34,851 Gas, manufacturing illuminating, Adams & Powell S34,851 Gas meter, V. P. Wilkins S34,854 Gas retort discharging apparatus, E. Chervett S34,710 Gas saving appliance, S. J. Jeha S34,733 Gasket, O. J. Garlock S34,611 Gelatin and glue from bones, manufacture of, H. Hilbert S34,806 Generator. See Gas generator. See Gas generator in fire finishing and	spreading disinfectants, destroying insect pests and diseases on trees, vegeta bles and other plants, extinguishing Brews, washing windows, wasons, etc., and other purposes. The machine is really a little water works system on wheels secause the easy movement of the pump develops a pressure exceeding 50 pounds, and will raise the liquid more than 80 feet above its own level. The Progress, 19 gallon size, costs only \$21.00; the 20 gallon size, 230.00. It will last a lifetime and pays for itself the first year. Other types of machines sold as low as \$2 and \$30.00. Write for detailed description.
A. Jina Gas generator, acetylene, J. Margreth. S34,851 Gas, manufacturing illuminating, Adams & Powell Gas meter, V. P. Wilkins Gas retort discharging apparatus, E. Chervett Gas saving appliance, S. J. Jeha Gas saving appliance, S. J. Jeha Gas saving appliance, S. J. Jeha Gasket, O. J. Garlock Gastin and glue from bones, manufacture of, H. Hilbert Generator. See Gas generator. Glassware, apparatus for fire finishing and polishing, C. L. Dorer Glassware, C. L. Dorer Grading machine, Odenkirchen & Cowell. S34,588 Grading machine, power carrying, H. A.	spreading disinfectants, destroying insect pests and diseases on trees, vegeta bles and other plants, extinguishing flees, washing vindows, wagons, etc., and other plants, extinguishing flees, washing vindows, wagons, etc., and other purposes. The machine by movement of the pump develops a pressure exceeding 50 pounds, and will raise the liquid nore than 80 feet above its own level. The Progress, 12 gallon size, costs only \$21.00 : the 20 gallon size, \$20.00. It will hast a lifetine and pays for itself the first year. Other types of machines sold as low as \$9 and \$10. Write for detailed description. Dayton Supply Co., Dept. R, Dayton, O.
Gas generator, acetylene, J. Margreth. 834,836 Gas, manufacturing illuminating, Adams & Powell 834,241 Gas meter, V. P. Wilkins 834,834 Gas retort discharging apparatus, E. Chervart 934,710 Gas saving appliance, S. J. Jeha 834,710 Gasket, O. J. Garlock 834,611 Gelatin and glue from bones, manufacture of, H. Hilbert 834,806 Generator. See Gas generator. Glassware, apparatus for fire finishing and polishing, C. L. Dorer 824,275 Gluing machine, Odenkirchen 824,275 Grading machine, power carrying, H. A. Clapp 834,331 Grain distributing device, T. J. Skillin 834,331	spreading disinfectants, destroying insect pests and diseases on trees, vegetables and other plants, extinguishing vegetables and other plants, extinguishing vegetables where the proposes. The machine is really a little water works system on wheels secause the easy movement of the pump develops a pressure exceeding 50 pounds, and will raise the liquid more than 80 feet above its own level. The Progress, 12 gallon size, costs only \$21.00: the 21 gallon size, \$30.00. It will last a lifetine and pays for itself the first year. Other types of machines sold as low as \$3 and \$10. Write for detailed description. Dayton Supply Co., Dept. R, Dayton, O.
A. Jina Gas generator, acetylene, J. Margreth. S34,831 Gas, manufacturing illuminating, Adams & Powell Gas meter, V. P. Wilkins Gas retort discharging apparatus, E. Chervet S34,731 Gas saving appliance, S. J. Jeha Gas saving appliance, S. J. Jeha Gas saving appliance, S. J. Jeha Gas saving appliance, S. J. Jeha Gas saving appliance, S. J. Jeha Gas saving appliance, S. J. Jeha Gas saving appliance, S. J. Jeha Gas saving appliance, S. J. Jeha Gas saving appliance, S. J. Jeha S34,731 Gelatin and glue from bones, manufacture Generator. See Gas generator. Glassware, apparatus for fire finishing and polishing, C. L. Dorer Gluing machine, Odenkirchen & Cowell. S34,558 Grading machine, power carrying, H. A. Clapp Grain distributing device, T. J. Skillin Gramphone, J. Sanders S34,226 Grapple, J. Dale Grannle, J. W. Stolkrantz. S34,590	spreading disinfectants, destroying insect pests and diseases on trees, vegetables and other plants, extinguishing fires, washing windows, wagons, etc., and other purposes. The machine is really a little water works system on wheels because the easy movement of the pump develops a pressure exceeding 50 pounds, and will raise the liquid more than 80 feet above its own level. The Progress, 12 gallon size, costs only \$21.00; the 20 gallon size, \$30.00. It will last a lifetime and pays for isself the first year. Other types of machines sold as low as \$3 and \$10. Write for detailed description. Dayton Supply Co., Dept. R, Dayton, O. THE OBER LATHES For Turning Axe, Adze, Pick Sledge, Hatchet, Hammer, Auger,
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Gas generator, acetylene, J. Margreth. Gas generator, acetylene, J. Margreth. Gas meter, V. P. Wilkins	spreading disinfectants, destroying insect pests and diseases on trees, vegetables and other plants, extinguishing fires, washing vindows, wagons, etc., and other purposes. The machine is movement of the system on wheels because the case who was system on wheels because the case to now nevel. The Progress, 19 gallon size, gallon size, 230,00. It will last a lifetine and pays for itself the first year. Other types of machines sold as low as \$9 and \$10. Write for detailed description. THE OBER LATHES For Turning Axe, Adze, Pick Sleege, Hatchet, Hammer, Auger, File, Knife and Chisel Handles, Whiffletrees, Yokes, Spokes, Porch Spindles, Stair Baliusters Table and Chair Legs and other irregular
A. Jina Gas generator, acetylene, J. Margreth. S34,831 Gas, manufacturing illuminating, Adams & Powell Gas meter, V. P. Wilkins Gas retort discharging apparatus, E. Chervet Gas retort discharging apparatus, E. Chervet Gas retort discharging apparatus, E. Chervet Gas saving appliance, S. J. Jeha Gasket, O. J. Garlock Gasket, O. J. Garlock Gasket, O. J. Garlock Gasket, O. J. Garlock Gasware, apparatus for fire finishing and polishing, C. L. Borer Glussware, apparatus for fire finishing and polishing, C. L. Borer Graing machine, Odenkirchen & Cowell Graing machine, power carrying, H. A. Clapp Grain distributing device, T. J. Skillin Gramphone, J. Sanders Grapple, J. Bale Grapple, J. Bale Grass gatherer, S. Hadac Grass gatherer, S. Hadac Grass gatherer, S. Hadac Grass gatherer, S. Hadac Grass, J. T. Nicholson Gun rack, J. T. Nicholson Gun sight, R. D. Hasbrouck Guns, telescopic sighting device for, J. Allaret	spreading disinfectants, destroying insect pests and diseases on trees, vegetables and other plants, extinguishing fives, washing vindows, wagons, etc., and other plants, extinguishing fives, washing vindows, wagons, etc., and other pump develops a pressure exceeding 50 pounds, and will raste the liquid nore than 80 feet above its own level. The Progress, 12 gallon size, costs only \$21.00 the 12 gallon size, \$23.00.0 it will last a lifetine and pays for itself the first year. Other types of machines sold as low as \$3 and \$10. Write for detailed description. Dayton Supply Co., Dept. R, Dayton, 0. THE OBER LATHES For Turning Are, Adze, Pick Sledge, Hatchet, Hammer, Auger, File, Knife and Chisel Handles, Whifiletrees, Yokes, Spokes, Porch Spindles, Stair Balusters Table and Chair Legs and other irregular work. The Ober Mig. Co., 10 Bell St., Chagrin Falls, 0., U.S.A.
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A. Jina Gas generator, acetylene, J. Margreth. Gas generator, acetylene, J. Margreth. Gas meter, V. P. Wilkins Gas reter, V. P. Wilkins Gas retort discharging apparatus, E. Chervet Vet Say, 1984,	spreading disinfectants, destroying insect pests and diseases on trees, vegetables and other plants, extinguishing fires, washing windows, wagons, etc., and other purposes. The machine is movement of the pump develops a pressure exceeding 50 pounds, and will raise the liquid more than 80 feet above its coun legal on the Progress, 17 gallon size, costs only \$21.00 this gallon size, professional part of the first star. Other twill be distribute and pays for light the gallon size, professionally started by the size of t
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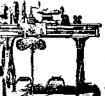
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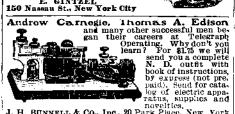




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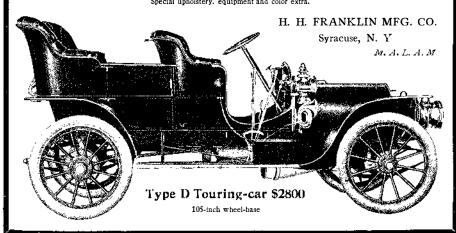
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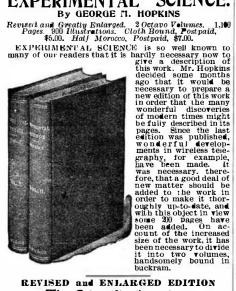


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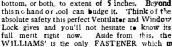




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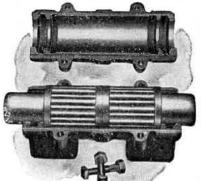
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