made" consists of American bole mixed with sufficient oleic acid to form a paste, and perfumed with nitro

Iron subcarbonate......3 " Lard or olive oil......q. s.

To make the finished product the consistency of lard perfume with oil of bitter almonds.

- (69) F. S. P. asks: Suppose a very narrow pit 14,282 feet below the level of the sea or ocean, how much less than 30 pounds to the square inch would the have no records for so great a depth as this. The pressure is supposed to slightly increase in descending make the pressure at such depth about 21 pounds to
- (70) E. K. says: I wish to use a fine metallic powder of iron and copper; could you advise me a cheap way to get it, in some quantity, possibly by grinding on emery wheels or else? The way of precipitation by hydrogen gas is too troublesome and expensive. A. A fine iron powder may be gathered in machine shops and foundries where much grinding is done with emery wheels. Copper powder may be obtained in the same way. We know of no trade in which copper is so ground.
- (71) A. L. S. asks: Does it take more power to raise water out of a 160 ft. depth well with a 4 in. pipe than it does with an inch pipe, both pipes to bave 2 in. cylinders at bottom of well? A. It takes less power by the difference in friction between the 4 in, pipe and the 1 in. pipe. With the small cylinder there will be no perceptible difference with a slow movement, the static pressure being the same in both pipes.
- (72) E. B. H. says: I use considerable aluminum plate. My scraps I have not been able to remelt and roll out. I seem to destroy some properties of the metal in remelting. Anneal it as often as I will, it continues to crack or break in rolling Can you help me out? A. The melting of aluminum, if properly conducted, should yield good results. It fuses at about 700° C. In order to remelt aluminum scraps, a fusing mixture of common salt and potassium chloride must be employed, as the presence of other fluxes, such as borax, glass, etc., renders the metal very impure.
- (73) W. H. H. asks: Can sperm oil be used again for lubricating purposes, after being used on an engine? A. Sperm oil that has been used on bearings is not suitable for reuse upon hearings or shafting, but is good for drilling or cutting threads, as bolts, nuts, etc., until entirely used up.
- (74) A. P. L.—An ohm is a unit of electrical resistance which is equal to 330 feet of No. 9 iron wire (0.155 in. diameter). The term "mile ohm" means the weight in pounds of metal required to produce in a mile length of wire the resistance of one ohm.
- (75) M. O. S. writes: During a heavy thunder storm which passed down the St. Lawrence, June 18, I noticed a somewhat strange phenomenon. While standing outside watching the progress of the storm, Isaw a flash of lightning almost directly north at about you made. You may have a broken conductor. Your 20 degrees from the horizon, followed by another and another, at, I may say, exactly the same elevation, flash succeeding flash, each one about 4 degrees due west from the preceding one. The whole succession of tact with the pole extension. See also that the pieces flashes extended from north to almost west, and from first to last occupied from 11/2 to 2 minutes. It resembled exactly the flight of a firefly, the flashes occurring at about the same intervals which elapse between the flashes emitted by a firefly. What occasioned this form? A. Lightning takes the course of the least rethe two are thoroughly incorporated. Sugar or motassistance. It is probable that the lightning followed a column of rarefied air, which remained undisturbed during the period of your observation.
- (76) F. G. R. asks: Will you please tell me if I will be able to get anything that will be repelled by mula for a French shoe dressing is given on page 355 of a magnet with the same power as soft iron will be at- Scientific American for Dec. 8, 1883. On page 150 of tracted to it? A. Like poles of two magnets will repel each other with the greatest repellent force obtainable formulas are given. from magnets, but this force will not be equal to the attraction of either of the magnets for a piece of soft
- (77) J. H. T. asks for the most correct method of ascertaining the contents of a barrel or cask, by japan varuish. (See page 5058, Scientific Amerithe diameter of the head, the diameter at bung, and can Supplement, No. 317.) In the compressed motherthe diameter of the head, the diameter at bung, and the length being given. You will see in Haswell's of-pearl the shells are submitted to a strong heat, "Engineers' and Mechanics' Pocket Book," of the issue of 1878, page 102, an example thus: Diameter of pressed in the cylinders of a flattened roller, and afterhead 17 inches, bung 19 inches, length 28 inches; volume, 7,689 cubic inches. Now, by what rule is this an- of the dust, and the powder is treated with gelatine, swer arrived at? I have figured it various ways, but and shaped in form. 2. How can bone and ivory be cannot bring the answer as above. A. Find the mean bleached without the direct action of the sun, for indiameter of the barrel, and the number of square inches stance, by the use of some fluid? A. Hydrogen perox- shaft has to be straightened after it has been reversed. in this curve, multiplied by the height of barrel in ide is used to bleach ivory and bone. See Scientific in the lathe. Now, what is the cause of this? A. We difference in the forms of barrels and the different curves of the staves, it is impossible to make one rule for finding the mean diameter apply in all cases. We ticles or tools are used by professionals in stamping think the figures quoted are a misprint, as they do not correspond with our calculation; they are changed in a ing, or braiding, etc.? 2. Where these articles or tools later edition, which gives rules for four varieties of
- Can you suggest anything to pour in which will disthem down and scrape them out. There should be a water surface and save the pipes from clogging.
- (79) J. C. M. says: I have a parlor fountain, in which the water mixed with air runs through about 30 feet of glass tubing which gets very dirty, so

- the glass tubes and pour nitric acid through them. Fix good felting for the inside or next the pipe. The paper power of 1,000 cubic feet of hydrogen gas, made by the tubes so that the acid will run free. Make a little benzol. The following is likewise said to be similar if not identical with the "Putz Pomade":

 | And the following is likewise said to be similar if not identical with the "Putz Pomade": you to pour the acid from a small bottle, catching it in | tion of borax and sal ammoniac or alum. a bottle at the bottom.
- (80) C. P. asks for a receipt for a blue and white, for stamping on goods; one that will not rub off. A. The indelible blue coloring which is sometimes used consists of ultramarine mixed with burued linseed oil, ground together and printed on the white surface. It is practically the equivalent of blue printer's ink; the white coloring material which is similarly used consists essentially of white lead. The soluble colors atmosphere exert at the bottom of the pit? A. We which are applied are the simple ultramarine mixed with gum water, and likewise the dry white lead mixed with the same substance. The addition of a little poshafts about half a pound to 1,000 feet, which would | tassium dichromate in the water added to the gum and then exposed to the light might possibly prevent its dissolving. Those who use these articles are very unwilling to give the formulas employed by them, claiming that they are trade secrets, for which they have paid money.
 - (81) J. D. P. asks: Who was the first person that invented a steamboat, and what part did George Fitch play in the steamboat world? A. There have been several claimants for the honor of being first in this field, and it is not quite clear how the credit should be divided; John, not George, Fitch built the first steamboat that was run in this country, making trips on the Delaware, above Philadelphia, in the summer of 1790.
 - ing small tin articles different or various colors, by dipping them in some solution so as to give them a smooth, hard, and durable finish? A. There are no ning. The latter is fully described in SCIENTIFIC AMER-ICAN SUPPLEMENT, 316, and for the former we would suggest that the articles be coated with some suitable particles of the fiber. metallic oxide or other coloring matter mixed with japan varnish and baked.
 - (83) J. D. F. says: 1. I have some old paint brushes which have become hard with paint; how can the paint be removed so as to make the brushes perfectly clean without injury to the bristles? A. To hours in raw linseed oil and rinse them out in hot turthen lay the articles on the grass, day and night, until power. Really, the engine is too small for the saw. the stain disappears.
 - (84) F. A. writes: I made a telephone as hown in the Scientific American Supplement, No. 142. The phones are made of ebony, and are perfect. Magnets are about as close as can be to the diaphragm. I cannot get them to work; like to know the cause. A. We cannot $s_a \boldsymbol{y}$ where your trouble lies without knowing more of the details of the construction of the instrument. You do not say which kind of telephone magnet may be closed by au iron armature. Your diaphragm may touch the end of the magnet. If you have used horse shoe magnets, see that like poles are in conused to clamp the magnets together are not iron.
 - (85) J. H. asks how shoe polish is made, the quality used by street boot blacks? A. Day & Martin's celebrated English blacking consists of bone black in a state of powder mixed with sperm oil until ses is then mixed with a small portion of vinegar and added to the mass. Sulphuric acid is next added, and when all effervescence has ceased, more vinegar is poured in until the mixture is of proper consistency. The for-SCIENTIFIC AMERICAN for March 10, 1883, several other
 - (86) H. P. asks: 1. How can mother-of pearl be bent and straightened after it is cut from the shell? A. Mother-of-pearl is generally used in small pieces and thin layers which are held in their position which separates them into thiu scales; these are then ward pounded in a mortar. It is then sifted to get rid
- me in your answers to correspondents. 1 What ar- you turn up your center, as you think, perfectly true, on felt, canvas, or other goods for embroidering, markcould be purchased? A. 1 and 2. The tools are few and simple; they cannot be purchased, and are made to (78) B. T. H. says: I have a portable gas order by the special individual using them from his machine, gas made from heavyoil passing over red hot own designs. 3 If there is any other way more pracretort, in use since 1856. The pipes from retort to tical and convenient for a lady to do her own stamping? gasometer have become partly filled with a thick tar. If so, how? A. The process is not practicable or convenient for a lady to undertake; it would be far cheaper solve this tar? A. There is no practical or safe way of in every instance for her to purchase the stamped patdissolving the tar out of the retort connections. Take tern rather than to undertake the preparation herself. Where a dealer can, by having special stamps cut for hydraulic main and a washer between the retorts and him, sell a large number of similar patterns, the price the gas holder, which will gather the surplus tar on a will be considerably less than if a single one were pre-
- (88) A. B. says: I am putting a steam furnace into my house to heat it, and wish to wrap the steam pipes with common buildingpaper. Can I satuwe can't tell the difference between the bubbles of air rate or cover the paper with a cheap solution that will or water (we use hydrant water). Can you inform me prevent the paper from taking fire with the steam at what to put in the water to clean the tubes and not hurt | 10 pounds? A. There is no danger from wrapping the the zinc with which the tank is lined that feeds the steam pipe with paper in a low pressure heating appa-

- (68) W. W.—The "Universal Putz Po- fountain? A. Know of uo better way than to take out ratus. Old carpet cut in strips, or listing, makes a very should be put on loosely and tied with twine. You
 - (89) H. D. Q.-Probably the best battery for your use is the Bunsen bichromate or electropoin battery. It is moderately constant, and has a high electromotive force. For a motor to be used only occasionally, the plunging bichromate battery is best. For full description of batteries see Supplement 157, 158, and 159. You will find small electric motors described in the back numbers of the SUPPLEMENT.
 - diluted with water, but it appears to kill the leaves, and still it does not kill or drive away the ants. Can you give me a remedy? A. We do not know of anything better than to put a ring of soft tar around the stems of the rose plants near the ground. Shake off all the ants, and see that all other communication between the leaves and ground is cut off. Wet the surface of the tar ring occasionally with kerosene oil to keep the tar soft. Ants do not love tar rings. You may also poison them by feeding them with mutton tallow into which a little arsenic has been mixed.
 - (91) S. R. G. says: A dry piece of lumber, foot square, will soak up a half pint of water, and swell a half inch in width. A duplicate piece may be saturated with oil until it will bend like leather, and yet (82) D. and R. ask for a receipt for color- it will sbrink. Why is this? A. The theory is that the water, having an affinity for the particles or atoms of the fiber, penetrates and unites with it, causing the fibers to swell; whereas the oil only enters the pores means of coloring tin except by lacquering and japan and lubricates the spaces between the fibers, causing them to easily move upon each other, making the wood elastic, the oil having no affinity for union with the
 - (92) B. F. W. writes: I have an engine with cylinder 10x12, rated at 20 horse power (center crank), boiler 42 inches by 11 feet with 36 three inch tubes, steam pipe 2 inches, exhaust pipe 2 inches (all new); have not power enough to run a 50 inch saw so as to cut more than 4,000 feet per day. Engine seems to soften brushes that have become hard, soak them 24 run free and easy with 20 to 30 pounds steam while running light machinery in a sash factory, but nearly pentine, repeating the process till clean; or wash them chokes down while running through a log with a 50 in hot soda and water and soft soap. 2. Can you tell | inch saw with steam at 80 to 100 pounds. What should me of something to put on awnings to prevent mildew? be done to increase the power? What size should the A. To remove mildew stains, mix well together two exhaust pipe be? A. The exhaust pipe should be 21/2 tablespoonfuls of soft soap, one of salt, two of powder- inches and as short as possible. If there is ample suped starch, and the juice of a lemon. Lay this mixture ply of steam, you might increase the speed of the en-Because there has been no economical success; the on both sides of the stain with a painter's brush, and | gine by changing some of the pulleys, and gain a little
 - (93) J. D. C. asks: Does the report of a cannon fired over the water where a person has been drowned, bring the body to the surface? If it does, can you explain upon what principle this takes place? A. The firing of cannon near the spot where the body of ; alcohol (90 per cent) 5 or 6 pints; dissolve in the cold a person that has been drowned is supposed to be lying with frequent stirring. upou the bottom, has in some cases caused bodies to rise: sometimes it fails. It is supposed that bodies that are liable to rise upon the firing of cannon are almost in an equipoise upon the bottom, and the intense vibration of the air, and consequently the water, tends to slightly distend such parts of the viscera as may contain gases under slight pressure. In this way a very slight sheets are frequently found, which can be used for stoves distention of confined gas would overcome the differ- and thelike; in such a condition it sometimes becomes ence in gravity between the body and the water, and cause the body to rise.
 - (94) M. D. asks: 1. How can I temper my two inch anger? It is soft. A. Temper an auger, if it is of steel by neating in a charcoal fire, a full or cherry red, and dip in water. If it is hard by trial with a file, For which Letters Patent of the United you may have to draw the temper to a dark straw or light blue. If it does not harden, it is probably iron that has been casehardened. Any blacksmith can re caseharden it. 2. Will beef cook tenderer nnder 100 pounds pressure to the square inch than it will in open kettle? Or will 200 steam pressure be better? A. Beef cooks tender under slight pressure with steam; one or two hundred pounds pressure will disintegrate it, and destroy its flavor. 3. Ought not a water pump to work, working cylinder 27 square inches surface on piston of low pressure cylinder, 3 pounds pressure to square inch, piston one inch square, working against 70 pounds pressure to the square inch? A. You have 81 pounds gross pressure npon your steam cylinder, against 70 pounds upon the water cylinder, only 10 pounds difference, which is not enough to overcome the friction; you should have 50 per cent more steam pressure, or about 41/2 pounds.
 - (95) S. G. N. says: When turning shafting, one center has to be dug over, and quite frequently the think the trouble is (87) "Buttons" asks: Can you kindly inform 'are very few lathes that have the hole absolutely true; take it out, harden it, and put it back in some other po sition, and although you may not observe upon the taper point that it is not running true, it may nevertheless be out one-sixty-fourth of an inch. Springing in hardening is also a cause of eccentric center The nressure of the dog might also cause eccentricity with a blunt center; in this case the shaft would not be
 - (96) C. W. W. asks: What amount of hydrogen can be obtained from one cubic foot of water. by passing its steam over red hot iron turnings in iron retort ? A. One cubic foot of water, theoretically, will produce about 1.400 cubic feet of hydrogen and 700 cubic feet of oxygen. 2. What amount of iron turnings will it take to absorb the oxygen of the cubic feet of water by passing the steam over them in the mannerstated. This will require about 192 pounds of iron for is absorption. 3. What amount of heating surface will it take to convert the one cubic foot of water into steam in one hour? A. To convert a cubic foot of water into steam in one hour will require from 10 to 15 square feet boiler heating surface, according to conditions of pressure, etc.

- (97) C. W. W. asks: 1. What is the lifting passing steam through red hot iron turnings, and purimay fireproof the paper by dipping it in a strong solufied in lime? A. The lifting power of pure hydrogen
 tion of borax and sal ammoniac or alum.
 gas is 71 pounds per thousand cubic feet. In practice, owing to diffusion through the pores of the balloon, this would be considerably reduced, say 25 per cent to 50 per cent. 2. Would a castiron cylinder 8 inches in diameter, half an thick and 8 feet long, do for a generator? A. The conder suggested is rather thin.

 3. What size steam books would be necessary for generating the steam? A. The size of the boiler must be (90) R. F. says: I have some monthly roses in my yard, and I find that the ants eat the leaves, and diluted with water, but it appears to kill the leaves. about 3,000 cubic feet of hydrogen, if the if was completely decomposed. 5. What amount of gas could be made in one hour? A. This depends on so many things that it is impossible to more than guess at it. Hydrogen is very tronblesome to handle, on account of its
 - (98) C. C. J. writes: I have a large number of India rubber articles, upon which I wish to put a firm, durable, white surface, as near an imitation of porcelain as possible, without being liable to crack or break off. The articles mentioned are for out door use, and must be weatherproof How shall I proceed? A. If the articles are of soft rubber, we do not think it possible to effect; if of hard rubber, it would be impossible to add a porcelain-like coatmg, for that would necessitate baking the articles, under which circumstances they would melt. We think therefore the most satisfactory thing to do would be first to apply some coloring substance in the way of a thin paint, and then finish by coating the objects with some of the best body wearing varnish.
 - (99) W. S.-Panclastite consists of about equal parts or carbon disulphide and hyponitric acid, and it is exploded by means of mercury fulminate or gunpowder.
 - (100) A. W. G. asks (1) how long it will take to let air out of a cylinder measuring 1 cubic foot, compressed to 300 pounds to the square inch? The hole to be an eighth of an inch in diameter. A. A rule for determining this will be found on page 891 of Clark's Rules and Tables for Engineers. 2. How is it that we don't see anything more about driving boats by pneumatic pressure? I've a boat partly made to be driven that way, but am afraid it will cost as much to compress the air as it would to furnish steam. A. power developed from compressed air is often not more than about 40 per cent of that required for the com-
 - (101) J. W. asks: How is the best piano polish made? A. We would recommend you to try the following: Very pale shellae 5 pounds, mastic 7 ounces,

MINERALS, ETC.—Specimens have been received from the following correspondents, and examined, with the results stated:

W. W.—The specimen is ordinary mica, and if the find runs like the sample it is of no value. Large worth as high as \$10.00 per pound. The specimen also contains garnets

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States were Granted

July 1, 1884,

AND EACH BEARING THAT DATE,

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Clutch, friction, J. H. Elward		Ice and refrigerating machine, P. G. & C. A. Ran- dall	Secondary battery. D. G. Fitz-Gerald	34 000	cents. In ordering please state the number and date
Cocks, boiler attachment for operating the test		lce creeper, 'l'. J. Cain		1,088	of the patent desired, and remit to Munn & Co 361
H. P. Chapman	. 301,432	lce machine, J. Patten 301,45	S. A. Cyr 30		Broadway, New York. We also furnish copies of patents granted prior to 1866; but at increased cost. as the
Coffin, Allen & Petticrew		Injector. P. Schneider et al			specifications, not being printed, must be copied by
Cooking utensil, G. Campagnari		Insulator for electric wires, A. W. Hale 301,44 Jack. See Wagon jack.	Shade and curtain fixture, J. C. Ingalls		hand.
Cooler. See Milk cooler.	. 001,000	Keyhole guard, E. C. Salter 301,28			Canadian Patents may now be obtained by the
Copying pad. L. Bailey			Shirt, S. D. Richardson		inventors for any of the inventions named in the forse going list, at a cost of \$40 each. For full instruction-
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Corkscrew. faucet, W. H. Bayles		Lacing stud, M. Bray 301,33			foreign patents may also be obtained.
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		Ludder, extension fire, J. E. Walker 301,30			Adrertisements.
Corset, Z. De Ledochowski		Ladder, step. M. G. Gartrell			
	. 301.454				
Cotton press, F. E. Murphey	. 301,454	Lamp regulating device, electric, E. A. Sperry 301.17	Sleigh knee, G. W. Taylor 30		Inside Page, each insertion 75 cents a line.
Coupling. See Car coupling. Thill coupling. Crane, P. H. Griffin	. 301,231	Lamp regulating device, electric, E. A. Sperry 301.17 Lathes, back rest for turning, Tyler & Railey 301,18	Spile or test tube for casks or vats, F. Gautzsch 30	01,404 01,354	Back Page, each insertion \$1.00 a line.
Cotton press, F. E. Murphey Coupling. See Car coupling. Thill coupling. Crane, P. H. Griffin Crayons. making, J. S. Lowe	. 301,231 . 301,137	Lamp regulating device, electric, E. A. Sperry 301.17 Lathes, back rest for turning, Tyler & Railey 301,18 Leather, machine for cutting sole, A. M. Howe. 301,23	Spile or test tube for casks or vats, F. Gautzsch 30 Sponge substitute, medicated, J. S. Gamgee 30	01,404 01,354 01.443	Back Page, each insertion \$1.00 a line. (About eight words to a line.)
Coupling. See Car coupling. Thill coupling. Crane, P. H. Griffin	. 301,231 . 301,137 . 301,267	Lamp regulating device, electric, E. A. Sperry 301.17 Lathes, buck rest for turning, Tyler & Railey 301,18 Leather, machine for cutting sole, A. M. Howe. 301,28 Lime kiln, S. F. Alien	Spile or test tube for casks or vats, F. Gautzsch 30 Sponge substitute, medicated, J. S. Gamgee 30 Springs, machine for forming, G. Norwood 30	01,404 01,354 01.443 01,261	Back Page, each insertion \$1.00 a line. (About eight words to a line.) Engravings may head advertisements at the same rate per line, by measurement, as the letter press. Adver-
Cotton press, F. E. Murphey. Coupling. See Car coupling. Thill coupling. Crane, P. H. Gridfin Crayons, making, J. S. Lowe. Creamer, centrifugal, J. R. Pond. Cultivator, J. H. Jones Cultivator, C. A. McElroy.	. 301,231 . 301,137 . 301,267 . 301,370	Lamp regulating device, electric, E. A. Sperry 301.17 Lathes, buck rest for turning, Tyler & Railey 301,18 Leather, machine for cutting sole, A. M. Howe. 301,28 Lime kiln, S. F. Alien	Spile or test tube for casks or vats, F. Gautzsch 30 Sponge substitute, medicated, J. S. Gamgee 30 Springs, machine for forming, G. Norwood 30 Starch, manufacturing. H. Duryea 30 Steam boller, H. Lane 30	01,404 01,354 01,443 01,261 01,436 01,374	Back Page, each insertion \$1.00 a line. (About eight words to a line.) Engravings may head advertisements at the same rate per line, by measurement, as the letter press. Adver- tisements must be received at publication office as early
Cotton press, F. E. Murphey. Coupling. See Car coupling. Thill coupling. Crane, P. H. Griffin	. 301,231 . 301,137 . 301,267 . 301,370 . 301,382 . 301,409	Lamp regulating device, electric. E. A. Sperry 301.17 Lathes, buck rest for turning, Tyler & Railey 301,18 Leather, machine for cutting sole, A. M. Howe 301,32 Lime kiln, S. F. Alien	Spile or test tube for casks or vats, F. Gautzsch 30 Sponge substitute, medicated, J. S. Gamgee 30 Springs, machine for forming, G. Norwood 30 Starch, manufacturing. H. Duryea 30 Steam boiler, H. Lane 30 Steam boiler. base burning, M. E. Herbert 30	01,404 01,354 01.443 01,261 01,436 01,374 01,366	Back Page, each insertion \$1.00 a line. (About eight words to a line.) Engravings may head advertisements at the same rate per line, by measurement, as the letter press. Adver-
Cotton press, F. E. Murphey. Coupling. See Car coupling. Thill coupling. Crane, P. H. Griffin. Crayons, making, J. S. Lowe. Creamer, centrifugal, J. R. Pond. Cultivator. J. H. Jones Cultivator, C. A. McElroy. Cultivator, C. C. Trinkle. Curtain and shade hanger, J. Haux.	. 301,231 . 301,137 . 301,267 . 301,370 . 301,382 . 301,409 . 301,120	Lamp regulating device, electric, E. A. Sperry 301.17 Lathes, buck rest for turning, Tyler & Railey 301,32 Leather, machine for cutting sole, A. M. Howe. 301,32 Lime kiln, S. F. Allen	Spile or test tube for casks or vats, F. Gautzsch 30 Sponge substitute, medicated, J. S. Gamgee 30 Springs, machine for forming, G. Norwood 30 Starch, manufacturing. H. Duryea 30 Steam boiler, H. Lane 30 Steam boiler, base burning, M. E. Herbert 30 Steam generator, J. W. Baliey 30	01,404 01,354 01,443 01,261 01,436 01,374 01,366 01,325	Back Page, each insertion \$1.00 a line. (About eight words to a line.) Engravings may head advertisements at the same rate per line, by measurement, as the letter press. Adver- tisements must be received at publication office as early
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Cotton press, F. E. Murphey. Coupling. See Car coupling. Thill coupling. Crane, P. H. Griffin	. 301,231 . 301,137 . 301,137 . 301,267 . 301,370 . 301,332 . 301,409 . 301,131 . 301,142 . 301,272 . 301,379 . 301,143 . 301,099 . 301,237 . 301,131 . 301,131 . 301,131 . 301,093 . 301,131	Lamp regulating device, electric, E. A. Sperry 301.17 Lathes, buck rest for turning, Tyler & Railey 301,48 Leather, machine for cutting sole, A. M. Howe 301,32 Lime kiln, S. F. Alien	Spile or test tube for casks or vats, F. Gautzsch 30 Sponge substitute, medicated, J. S. Gamgee 30 Springs, machine for forming, G. Norwood 30 Starch, manufacturing. H. Duryea 30 Steam boiler, H. Lane 30 Steam boiler, H. Lane 30 Steam boiler, H. Lane 30 Steam generator, J. W. Balley 30 Steel for reworking, preparing old, W. Parkinson. 30 Stench trap, H. Pietsch 30 Stopper. See Bottle stopper. Stopping and starting mechanism, E. Gowdy 30 Store service carriers, conductor for, E. L. Gles 30 Striping, implement for, C. Tangenberg 30 Strontium, manufacture of carbonate of, Mebus & De Castro 30 Stump extractor, J. Seitz 30 Sutt hanger, W. E. Ginn 30	01,404 01,354 01,438 01,261 01,436 01,874 01,356 01,147 01,151 01,151 01,151 01,227 01,402 01,383 01,286 01,356	Back Page, each insertion \$1.00 a line. (About eight words to a line.) Engravings may head advertisements at the same rate per line, by measurement, as the letter press. Adver- tisements must be received at publication office as early
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Moulton 301,25 Milk cooler. S. J. & N. T. Wilson (r) 10,49 Milk. See Cane mill. Roller mill. Moulding machine, C. T. Sweet 301,46 Neckwear fustener, J. B. Sultzer 301,46 Needle, shoemaker's sewing. A. W. Austin 301,42 Nut lock, F. L. Brandon 301,03 Nut lock, H. G. Cady 301,20 Nut lock, H. G. Cady 301,20 Nut making machine, J. B. & L. C. Clark 301 Nut making machine, J. B. & L. C. Clark 301,43 Nut making machine, J. B. & L. C. Clark 301,43 Oven, bake, W. H. Albach 301,31 Oven, bake, W. H. Albach 301,31 Overcoat, J. A. C. Hamill 301,13 Overcoat, J. A. C. Hamill 301,13 Overcoat, J. A. C. Hamill 301,14 Overshoe, J. E. Whitehouse 301,31 Overcoat, J. A. C. Hamill 301,14 Paper for checks and other documents of value, safety, F. Nowlan 301,28 Paper for checks and other documents of value, safety, F. Nowlan 301,27 Paper for checks and other documents of value, safety, F. Nowlan 301,31 Paper trimming machine, J. H. Stonemetz 301,37 Paper for checks and other documents of value, safety, F. Nowlan 301,31 Paper for checks and other documents of value, safety, F. Nowlan 301,32 Parcel carrying apparatus for stores, H. H. Hay-	Spile or test tube for casks or vats, F. Gautzsch Sponge substitute, medicated, J. S. Gamgee 30 Springs, machine for forming, G. Norwood 30 Starch, manufacturing. H. Duryea 30 Steam boiler, H. Lane 30 Steam boiler, H. Lane 30 Steam boiler, Base burning, M. E. Herbert 30 Steam generator, J. W. Balley 30 Steel for reworking, preparing old, W. Parkinson. 30 Stench trap, H. Pietsch 30 Stopper. See Bottle stopper. Stopping and starting mechanism, E. Gowdy 30 Storper. See Bottle stopper. Stopping implement for, C. Tangenberg 30 Striping, implement for, C. Tangenberg 30 Strontium, manufacture of carbonate of, Mebus & De Castro 30 Stump extractor, J. Seitz 30 Sulphur refining apparatus, F. Dickert 30 Sulphur refining apparatus, F. Dickert 30 Supporter. See Garment supporter. Suppository, hollow, E. H. Gibbs 30 Tack tool, carpet, G. C. Myers 30 Tag holder, J. Kydd 30 Theatrical plays, scenery for, F. L. Rees 30 Theatrical plays, scenery for, F. L. Rees 30 Theatrical plays, scenery for, F. L. Rees 30 Tile. See Bale tie. Tire setting apparatus, J. Jones 30 Trie tightener, T. M. Feruson 30 Tobacco, machine, plug, W. W. Wood 30 Trup, See Stench trap. Trap for lavatories, etc., C. F. Pike 30 Trunk, J. Biederman 30 Trunk, J. Biederman 30 Trunk or hox fastener, W. B. Coulter 30 Twist drills, machine for grooving, A. R. Arnold. 30 Umbrella or parasol. E. M. L. liaquiere 30 Umbrella or parasol. E. M. L. liaquiere 30 Umbrella or parasol. E. M. L. liaquiere 30 Urinal, I. Davis 30	01,404 11,334 11,334 11,438 11,261 11,436 11,366 11,374 11,366 11,327 11,418 11,417 11,417 11,417 11,417 11,417 11,417 11,417 11,418 11,417 11,417 11,417 11,417 11,418 11,417 11,418	Back Page, each insertion \$1.00 a line. (About eight words to a line.) Engravings may head advertisements at the same rate per line, by measurement, as the letter press. 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Boynton. 301,62 Paper profile of the documents of value, safety, F. Nowlan. 301,42 Paper holder, C. A. Splegel. 301,32 Pape	Spile or test tube for casks or vats, F. Gautzsch Sponge substitute, medicated, J. S. Gamgee 30 Springs, machine for forming, G. Norwood 30 Starch, manufacturing. H. Duryea 30 Steam boiler, H. Lane 30 Steam boiler, H. Lane 30 Steam boiler, Dase burning, M. E. Herbert 30 Steam generator, J. W. Baliey 30 Steel for reworking, preparing old, W. Parkinson. 30 Stench trap, H. Pietsch 30 Stopper. See Bottle stopper. Stopping and starting mechanism, E. Gowdy 30 Storper. See Bottle stopper. Stopping and starting mechanism, E. Gowdy 30 Striping, implement for, C. Tangenberg 30 Striping, implement for, C. Tangenberg 30 Strontium, manufacture of carbonate of, Mebus 40 4. De Castro 30 Stump extractor, J. Seitz 30 Sulphur refining apparatus, F. Dickert 30 Sulphur refining apparatus, F. Dickert 30 Sulphur refining apparatus, F. Dickert 30 Supporter. See Garment supporter. 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Rohney 30 Valves upon their rods, adjusting and securing	01,404 11,334 11,436 11,436 11,436 11,436 11,436 11,326 11,326 11,327 11,140 11,327 11,402 11,328 11,328 11,328 11,328 11,328 11,328 11,328 11,328 11,328 11,328 11,328 11,328 11,328 11,328 11,328 11,328 11,328 11,338 11	Back Page, each insertion \$1.00 a line. (About eight words to a line.) Engravings may head advertisements at the same rate per line, by measurement, as the letter press. Advertisements must be received at publication office as early as Thursday morning to appear in next issue. THE SWEETLAND M'F'G COMPANY, WALLINGFORD, CONN. Manufacturers of "The Sweetland Chuck." THE PAYNE AUTOMATIC ENCINE Gives more power from same amount of fuel and water than any engine of fuel and water than any engine power. Send for prices and catalogue A4. B. W. PAYNE & SONS,
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Wilson (r). 10, 48 Milk. See Cane mill. Roller mill. Moulding machine, C. T. Sweet. 301, 46 Neckwear fustener, J. B. Sultzer. 301, 46 Needle, shoemaker's sewing. A. W. Austin. 301, 42 Nut lock, F. L. Brandon. 301, 301, 301 Nut making machine, J. B. & L. C. Clark. 301, 301 Nut making machine, J. B. & L. C. Clark. 301, 301 Nut making machine, J. B. & L. C. Clark. 301, 301 Nut making machine, J. B. & L. C. Clark. 301, 301 Oven grate, W. H. Albach. 301, 301 Oven grate, W. H. Albach. 301, 301 Oven grate, W. H. Keating. 301, 301 Oven grate, W. H. Keating. 301, 301 Oven grate, W. H. Keating. 301, 301 Oven cat, J. A. C. Hamill. 301, 41 Overshoe, J. E. Whitehouse. 301, 301 Overson, J. E. Whitehouse. 301, 301 Oven cat, J. A. C. Hamill. 301, 41 Overshoe, J. E. Whitehouse. 301, 301, 301 Oven cat, J. A. C. Petty. 301, 42 Pade bags. tubing and printing, A. J. Boynton. 301, 301 Paper for checks and other documents of value, safety, F. Nowlan. 301, 401, 401, 401, 401, 401, 401, 401, 4	Spile or test tube for casks or vats, F. Gautzsch Sponge substitute, medicated, J. S. Gamgee 30 Springs, machine for forming, G. Norwood 30 Starch, manufacturing. H. Duryea 30 Steam boiler, H. Lane 30 Steam boiler, H. Lane 30 Steam boiler, Base burning, M. E. Herbert 30 Steam generator, J. W. Balley 30 Steel for reworking, preparing old, W. Parkinson 30 Stench trap, H. Pietsch 30 Stopper. See Bottle stopper. Stopping and starting mechanism, E. Gowdy 30 Store service carriers, conductor for, E. L. Giles 30 Striping, implement for, C. Tangenberg 30 Strontium, manufacture of carbonate of, Mebus 40 4 De Castro 30 Stump extractor, J. Seitz 30 Suuphar refining apparatus, F. Dickert 30 Supporter. See Garment supporter. Suppository, hollow, E. H. Gibbs 30 Tack tool, carpet, G. C. Myers 30 Tag holder, J. Kydd 30 Teak ettle, G. Taylor 30 Theatrical plays, scenery for, F. L. Rees 30 Tile. See Bale tie. Tire setting apparatus, J. 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Wiley 30 Ventilating sewers,	01,404 11,334 11,361 11,438 11,261 11,436 11,366 11,325 11,147 11,151 11,227 11,101 11,151 11,227 11,102 11,138 11,236 11,336 11,236 11,336 11,236 11,336 11,336 11,336 11,337 11,1350 11,131 11,131 11,131 1	Back Page, each insertion \$1.00 a line. (About eight words to a line.) Engravings may head advertisements at the same rate per line, by measurement, as the letter press. Advertisements must be received at publication office as early as Thursday morning to appear in next issue. THE SWEETLAND M'r'G COMPANY, WALLINGFORD, CONN. Manufacturers of "The Sweetland Chuck." THE PAYNE AUTOMATIC ENCINE Gives more power from same amount of fuel and water than any engine of fuel and water than any engine made, and 50 per cent more power from same amount of fuel and water than any engine swarranted. All sizes and styles, 2 to 250 horse power. Send for prices and catalogue A. P. O. Box 1207. Elimira, N. Y.
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Sperry 301, 17 Lathes, back rest for turning, Tyler & Railey 301, 18 Leather, machine for cutting sole, A. M. Howe 301, 22 Lime kiln, S. F. Alien 301, 42 Lock. See Alarm lock. Nut lock. Safe lock. Lubricator. See Axle lubricator. Lubricator. A. W. Swift 301, 300, 301, 300 Mail box. E. Smalley 301, 28 Manure loader. H. C. Davis 301, 29 Manure loader. H. C. Davis 301, 20 Milk cooler. S. J. & N. T. Wilson (r) 10, 49 Milk cooler. S. J. & N. T. Wilson (r) 10, 49 Milk cooler. S. J. & N. T. Wilson (r) 10, 49 Milk cooler. S. J. & N. T. Sweet 301, 46 Neckweur fastener, J. B. Sultzer 301, 46 Needle case, G. W. Rhodes 301, 41 Needle, shoemaker's sewing. A. W. Austin 301, 42 Nut lock, F. L. Brandon 301, 30 Nut lock, F. L. Brandon 301, 30 Nut lock, E. F. Campbell et al 301, 30 Nut making machine, J. B. & L. C. Clark 301, 30 Nut sand washers, machine for making, J. Ashton 301, 30 Oil can, E. M. Turner 301, 31 Oven bake, W. H. Albach 301, 31 Oven bake, W. H. Albach 301, 31 Overcoat, J. A. C. Hamill 301, 31 Overcoat, J. A. C. Hamill 301, 31 Overcoat, J. E. Whitehouse 301, 31 Overshoe, J. E. Whitehouse 301, 31 Overshoe, J. E. Whitehouse 301, 31 Overbace, W. H. Keating 301, 30 Overshoe, J. E. Whitehouse 301, 31 Overbace, T. W. W. Smith 301, 29 Paper for checks and other documents of value, safety, F. Nowlan 301, 32 Paper bags, tubing and printing, A. J. Boynton 301, 32 Paper bags, tubing and printing, A. J. Boynton 301, 32 Paper trimming machine, J. H. Stonemetz 301, 31 Paper holder, reservoir, L. B. Bertram 301, 32 Paper dotting, L. T. Weiss 301, 31 Pen holder, reservoir, L. B. Bertram 301, 31 Pen holder, reservoir, L. B. Bertram 301, 30 Phosphates of alumina and iron, treating, Liebly & Gibbons 301, 406 Phosphates of alumina and iron, treating, Liebly & Gibbons 301, 406 Phosphates of alumina and iron, treating, Liebly & Gibb	Spile or test tube for casks or vats, F. Gautzsch Sponge substitute, medicated, J. S. Gamgee 30 Springs, machine for forming, G. 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Walker 30 Triumk or hox fastener, W. B. Coulter 30 Trunk or hox fastener, W. B. Coulter 30 Twist drills, machine for grooving, A. R. Arnold. 30 Umbrella or parasol. E. M. L. Biaquiere 30 Unival, I. Davis 30 Valve straight-way, S. W. Hoag, Sr. 30 Valve, straight-way, A. B. Rohney 30 Valve straight-way, A. B. Rohney 30 Valve straight-way, A. B. Rohney 30 Valve, straight-way, A. B.	01,404 11,334 11,261 11,436 11,261 11,436 11,261 11,436 11,366 11,327 11,151 11,127 11,151 11,127 11,161	Back Page, each insertion \$1.00 a line. (About eight words to a line.) Engravings may head advertisements at the same rate per line, by measurement, as the letter press. Advertisements must be received at publication office as early as Thursday morning to appear in next issue. THE SWEETLAND M'R'G COMPANY, WALLINGFORD, CONN. Manufacturers of "The Sweetland Chuck." THE PAYNE AUTOMATIC ENCINE Gives more power than rated at. All engines warranted. All sizes and styles, 2 to 250 horse power. 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See Copying pad. 301,32 Paper for checks and other documents of value, safety, F. Nowlan. 301,32 Paper holder, C. A. Spiegel. 301	Spile or test tube for casks or vats, F. Gautzsch Sponge substitute, medicated, J. S. Gamgee 30 Springs, machine for forming, G. Norwood 30 Starch, manufacturing. H. Duryea 30 Starch, manufacturing. H. Duryea 30 Steam boiler, H. Lane 30 Steam boiler, H. Lane 30 Steam boiler, H. Lane 30 Steam generator, J. W. Baliey 30 Steel for reworking, preparing old, W. Parkinson, 30 Stench trap, H. Pietsch 30 Stopper. See Bottle stopper. Stopping and starting mechanism, E. Gowdy 30 Storpes: See Gartiers, conductor for, E. L. Giles 30 Striping, implement for, C. Tangenberg 30 Striping, implement for, C. Tangenberg 30 Strontium, manufacture of carbonate of, Mebus 40 De Castro 30 Stump extractor, J. Seitz 30 Sulphur refining apparatus, F. Dickert 30 Sulphur refining apparatus, F. Dickert 30 Supporter. See Garment supporter. 30 Supporter. 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See Copying pad. 30,12 Pad. See Copying pad. 30,12 Paper for checks and other documents of value, safety, F. Nowlan. 301,24 Paper holder, C. A. Splegel. 301,35 Paper for checks and other documents of value, safety, F. Nowlan. 301,42 Paper holder, C. A. Splegel. 301,35 Paper proteches, and other documents of value, safety, F. Nowlan. 301,42 Paper holder, C. A. Splegel. 301,35 Paper proteches, and other documents of value, safety, F. Nowlan. 301,42 Paper holder, C. A. Splegel. 301,35 Pen holder, reservoir, L. B. Bertram. 301,40 Photophates, manufacture of alkaline, S. G. Thomas. 301,406 Phosphates,	Spile or test tube for casks or vats, F. Gautzsch Sponge substitute, medicated, J. S. Gamgee 30 Springs, machine for forming, G. Norwood 30 Starch, manufacturing. H. Duryea 30 Starch, manufacturing. H. Duryea 30 Steam boiler, H. Lane 30 Steam boiler, base burning, M. E. Herbert 30 Steam generator, J. W. Baliey 30 Steel for reworking, preparing old, W. Parkinson. 30 Stench trap, H. 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