- (27) R. O. asks how to make a hair dye dilute ammonia water. Then moisten it uniformly with dilute solution of gallic acid or ammonium sulphide. and go over it with a comb moistened with solution of one part nitrate of silver in nine parts of water, touch ing the scalp as little as possible. Stains may be removed by applying a little dilute solution of iodine in iodide of potassium dissolved in water, and then with solution of sodium hyposulphite.
- (28) L. W. D. asks: Do you know of any material or process by which a fine gloss, white finish, on wood can be obtained without the use of damar varnish? A. You might try spirit copal or shellac varnish and polish down with pumice stone or rotten stone and
- (29) G. W. S. asks: 1. Are not blinds that are used on horses' bridles injurious to their eyes? A. We think not. 2. When Paris green is sprinkled on vegetables will the dew and air draw the poison out so that it will be less fatal if eaten? A. No.
- (30) C. C. H.—The "oiled tissue" you send is goldbeater's skin, prepared from the peritoneal membrane of the cæcum, which, as soon as it is detached, is stretched and dried, soaked in a weak solution of potash, and stretched on a frame. While in this position a similar membrane is applied to it so that the surfaces which adhered to the muscular membrane of the intestine come together. They unite perfectly and soon dry. They are then glued to frames, washed with alum water, dried, washed with solution of isinglass in wine to which spices have been added, and varnished with white of egg.
- (31) A. U. asks: 1. How are opals separated from the matrix? Are there any machines that can be used for that purpose? A. Consult Traill's "Treatise on Quartz and Opal." Emanuel's "Diamonds and Precious Stones," and Byrne's " Handbook for the Artisan." The latter contains a good article relative to the best methods and machinery for such work. Address the booksellers and dealers in machinery who advertise in this paper. 2. Is there likely to be a market for these stones in America? The specimens are very brilliant fire opals, and I have seen pieces two inches in diameter and half an inch thick. A. Yes.
- (32) E. M. asks: 1. Can Jupiter's great spot be clearly seen with the telescope described in Supplement, 252? A. Yes, when an achromatic objective
- (33) C. B. C. asks: How is chloride of silver made? A. Although it may be formed by the direct union of chlorine with silver the easier and betterway is to dissolve chloride of sodium (common salt) in water in one vessel, and nitrate of silver in another. distilled water being used by preference for the latter. Now pour the one solution into the other, and instantly there will be formed a dense, white, curdy precipitate, Next pour off the supernatant fluid and add plain water two or three times to wash the chloride free from the traces of the nitrate of soda, the other product of the decomposition. The combining equivalent of nitrate of silver being 170, while that of chloride of sodium is 58.5, these proportions should be adhered to when dissolving the salts. The proportion of water is imma-
- (34) L. B. F. wishes a receipt for making an acid-proof cement. A. It would have been desirable had particulars of the object for which it is required been given, as acids act so differently upon different substances. A mixture of equal parts of pitch, resin, and dried plaster of Paris is much used as a cement in chemical works where sulphuric acid is prepared. Troughs for holding acids may be effectively cemented by the following: Resin, 6 lb.; dried red ocher, 1 lb.; calcined plaster of Paris, 1/2 lb.; linseed oil, 1/4 lb. These must be incorporated by well stirring together when melted. For smaller purposes an alcoholic solution of shellac, or a solution of bitumen in benzol, answers well. To render this latter less brittle, it is desirable to glue also resists acids. It may be formed of India-rub ber 1 part, digested, with heat, in a covered vessel containing 12 parts of mineral naphtha, to which, when solution is effected, 20 parts of powdered shellac are added. When liquefaction is complete pour out on a slab to solidify.
- (35) J. R. S. writes requesting information respecting the recently introduced methods of obtaining reproductions of writing in inks of any desired color. A. Pour intoa fiat zinc trough, or upon a zinc plate having the edges turned up a quarter of an inch, a warm solution of the following substances: Water, 139 parts; sulphate of baryta, 75 parts; sugar, 30 parts; gelatine, 30 parts; glycerine, 180 parts. This mass when cool becomes stiff and forms the printing surface. The writing to be reproduced is written with any suitable ink, methyl violet being generally preferred; and en quite dry, is laid down upon the gelat and the hand rubbed over it. By this operation the ink is absorbed. Quite a number of impressions may now be obtained from this gelatinous surface, by laying upon it a sheet of paper and rubbing with the palm or edge of the hand. If the weather be very hot, to prevent the film from becoming sticky the proportion of baryta above given may be increased to 100 parts. By the following modification of this process the plate may be inked like a lithographic stone, and thus be made to yield an indefinite number of impressions in ink of any color. The proportion of water must be reduced, and the ink with which the writing or drawing is made must contain alum. On theoretical grounds the best ink to employ would be a saturated solution of the alum to which was added enough common writing ink to give it color A wet sponge having been passed over the gelatine surface, the writing is laid down, and after the lapse of a few moments it is removed, when the writing will be found to be eaten into the film as if engraved. A roller charged with printer's ink is now passed over the surface. which, when properly inked, will now yield any required number of impressions. By preference the inking roller should be formed of India-rubber; fresh inking must be had recourse to aftereach impression has been taken.

MINERALS, ETC. - Specimens have been relike that used by barbers. A Cleanse the hair with ceived from the following correspondents, and examined, with the results stated:

H. R.-Barytocalcite-BaCO₂+CaCO₃.-J. S. W.-No. 1 is dolomite-magnesian limestone. No. 2, datholite-a hydrated borosilicate of calcium. -M. B .- The gravel contains no metals. The bright particles are mica and a little iron sulphide pyrites. The rock is quartzose, carrying a little chalcopyrite-iron-copper sulphide.-P. S.-It is lead sulphide-galena; may contain a trace of silver .- J. P.-It is blast furnace scorianot a native mineral.-W. T.-A sandstone saturated with petroleum.

COMMUNICATIONS RECEIVED.

On Inventors' Academy. By E. W. S. On Railroad Rail Binding. By E. A. S. On a Curious scicle. By E. M. On Rainfalls. By J. T. N.

NEW BOOKS AND PUBLICATIONS.

THE AMERICAN CHEMICAL JOURNAL

The number for December contains several very able articles, among them the following papers: "Researches on the Complex Inorganic Acids," by Wolcott Gibbs. "Estimation of Alkajoids by Potassium Mercuric Iodide," by Albert B. Prescott, Contributions from the Chemical Laboratory of Harvard University: "On the Ethers of Uric Acid: Dimethyluric Acid, by H. B. Hill and C. F. Mabery. "Researches on the Substituted Benzyl Compounds; Orthobrombenzyl Compounds," by C. Loring Jackson and J. Fleming "The Constitution of the Tartrates of Antimony," by F. W. Clarke and Helena Stallo. "On the Relative Stability of Certain Organic Salts," by Miles Beamer and F. W. Clarke. "Some New Salts of Uranium," by F. W. Clarke and Mary E. Owens. "Graphite from Ducktown, Tennessee," by W. I. Dudley and F. W. Clarke. "On the Distribution of Arsenic in the Human Body in a Case of Arsenical Poisoning," by S. W. Johnson and R. H. Chittenden. "Synthesis of Salicylic Acid," by Edgar F. Smith.

THEORIE DER GEWOELBE (THE THEORY OF VAULTS). By A. Foeppl. Leipsic: Arthur Felix, 1880. 152 pp.

This work is divided into four chapters, of which the first embraces the "Elementary Theory of Barrel Vaults," their conditions of stability the graphical calculations for obtaining the pressure line, etc. The second chapter treats of the "Theories of Elasticities" in barrel vaults: the third chapter is devoted to the theory of the pressure and elasticity in domes; whereas the fourth treats of groined arches. This work was not intended for the beginner, as it requires considerable acquaintance with the subject; but for such persons it will be found to be of great value, as it contains a large store of information, especially in regard to modern developments and the elasticity of vaults.

[OFFICIAL.]

INDEX OF INVENTIONS

FOR WHICH

Letters Patent of the United States were Granted in the Week Ending December 21, 1880.

AND EACH BEARING THAT DATE.

[Those marked (r) are reissued patents.]

A printed copy of the specification and drawing of any patent in the annexed list, also of any patent issued since 1866, will be furnished from this office for one dollar. In ordering please state the number and date of the patent desired and remit to Munn & Co., 37 Park Row. New York city. We also furnish copies of patents granted prior to 1866; but at increased cost, as the specifications not being printed, must be copied by hand.

	Aging and purifying spiritous liquors, apparatus for, F. L. Wood	235,840
1	Averaging machine, W. S. Auchincloss	
	Axle box, R. W. Irwin	
	Axle lubricator, T. White.	
	Baking powder, C. E. Avery	
	Ball and socket hanger, N. Stedman	
4	Boiler furnace, Kilroy & Flick	
ı	Boiler furnace, P. W. Lamb	
	Boilers and other vessels, manufacture of, L. S.	
	White	
	Boilers, composition for preventing incrustation	
i	of, H. Heimann	235,633
1	Bolt, A. Climie	
	Bolts, tool for printing, P. Hartin	
	Book, blank, I. Reynolds (r)	
	Boot and shoe soles, mechanism for abraiding and	
	polishing, J. A. Ambler (r)	
	Boot and shee toe protector, J. A. Stockwell (r)	
1	Bracelet, F. Kursh	
	Breastpin, L. P. & L. P. Jeanne	
1	Bridle, S. A. Nolen	
	Brush, paint, E. Wright	
	Bung, faucet, Reynolds & Shaw	
	Button and stud, J. Kennedy	235,634
	Calcium, apparatus for the decomposition of	005.03-
	chloride of. E. Solvay	
1	Canister, P. Lehmann	235,789
	T. Maybury (r)	0.500
	Cans, mechanism for placing and soldering heads	9,509
1	in, G. H. Pierce	
1	Car brake, J. Crollard	
ı	Car coupling, J. N. Blair	
1	Car coupling, J. H. Quackenbush	
1	Car mover, F. B. Galloway	
1	Car wheel, A. Wilbur	
	Carriage body loops, device for making, W. Pearce	
	Cartridge loader, C. W. Osgood	
	Casting hollow ingots, mould and core for, C. B.	
	Morse	
	Casting pencil sharpeners, mould for, W. K. Foster	
	Centrifugal machine, R. Lafferty	
	Centrifugal machine, M. K. Muchin	
	Chair head rest, A. Schwaab	235,705
	Check receiver I Casev	235 740
	Chuck for turning polygonal bodies, lathe, 'L.	
ı	Wales	DOP #4 7

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Cider press, H. A. King	
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Music holder, C. W. Millspaugh. 235,685 Nail machines, apparatus for feeding, W. Briggs. 235,667 Nails, etc., apparatus for retailing, Draper & Bowyer. 235,753 Nut lock, J. M. Dakan. 285,753 Nut lock, J. M. Dakan. 285,755 Nut lock, S. S. Smith. 235,706 Ore roasting furnace, rotary. J. K. Pardee 235,800 Ore separator, H. Hochstrate. 235,770 Packing, metallic piston rod, G. B. Brayton. 235,733 Packing, piston, S. M. Brown. 235,735 Packing, piston, Williams & Matthews. 235,843 Padlock, H. H. Daniels. 235,750 Paper boxes, forming the bending lines in, J. E. Stannard. 235,821 Paper boxes, manufacture of. C. P. Housum. 235,682 Paper phoxes, manufacture of. C. P. Housum. 235,682 Paper, method of and apparatus for corrugating, M. Newton. 235,693 Patterns, apparatus for draughting, F. J. Kellogg. 225,776 Pen holder, W. H. Sprague. 235,785 Pencil holder, H. C. Benson. 235,782 Pencil sharpeners, machine for making slate, F. Rheydt. 235,831 Photographic emulsions, producing, H. W. Vogel. 235,831	Currier Window screen, J. Ward Wire bending machine, I. A. Kiimer. Wood, preserving, L. S. Robbins (r). DESIGNS. Carpet, W. J. Gadsby Carpet, W. L. Jacobs
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Music holder, C. W. Millspaugh. 235,686 Nail machines, apparatus for feeding, W. Briggs. 235,687 Nails, etc., apparatus for retailing, Draper & Bowyer. 235,753 Nut lock, J. M. Dakan. 235,753 Nut lock, J. M. Dakan. 235,753 Nut lock, S. S. Smith. 235,705 Ore roasting furnace, rotary. J. K. Pardee. 235,300 Ore separator, H. Hochstrate. 235,700 Packing, metallic piston rod, G. B. Brayton. 235,733 Packing, piston, S. M. Brown. 235,733 Packing, piston, Williams & Matthews. 235,734 Packing, piston, Williams & Matthews. 235,736 Paper boxes, forming the bending lines in, J. E. Stannard. 235,821 Paper boxes, forming the bending lines in, J. E. Stannard. 235,822 Paper boxes, manufacture of. C. P. Housum. 235,682 Paper method of and apparatus for corrugating, M. Newton. 235,682 Patterns, apparatus for draughting, F. J. Kellogg. 235,776 Pen holder, W. H. Sprague. 235,686 Pen wiper, G. Lane. 235,788 Pencil holder, H. C. Benson. 235,726 Pencil sharpeners, machine for making slate, F. Rheydt. 235,831 Piston connection for indicators and pressure gauges, L. F. Lyne. 235,791 Planter attachment, corn, R. H. Whipple. 235,682 Plastic material, manufacture of articles from, J. Naylor. 235,799 Plow, R. C. Meritt. 235,639 Plow carriage, J. T. McNorton. 235,799 Plow, sulky, W. Hemme. 235,779 Plow, sulky, W. A. James (r). 9501 Pole eyes for carriages, device for making. W. Pearce. 235,772 Propelling row boats, apparatus for, H. N. Staats. 235,772 Propelling row boats, apparatus for, H. N. Staats. 235,772 Propelling row boats, apparatus for, H. N. Staats. 235,772 Propelling row boats, apparatus for, H. N. Staats. 235,725 Propelling row boats, apparatus for, H. N. Staats. 235,722 Pullp, etc. manufacture of artificial stone grinders for making wood. S. M. Allen. 235,722 Pump for compressing illuminating gas, R. J. & J. Pintseh. 235,742 Pump for compressing illuminating gas, R. J. & J. Pintseh. 235,744	Gurrier Window screen, J. Ward Wire bending machine, I. A. Kimer. Wood, preserving, L. S. Robbins (r) DESIGNS. Carpet, W. J. Gadsby Carpet, W. L. Jacobs
Music holder, C. W. Millspaugh. 235,685 Nail machines, apparatus for feeding, W. Briggs. 235,667 Nails, etc., apparatus for retailing, Draper & Bowyer. 235,753 Nut lock, J. M. Dakan. 235,753 Nut lock, S. S. Smith 235,705 Ore roasting furnace, rotary. J. K. Pardee 235,800 Ore separator, H. Hochstrate. 235,705 Packing, metallic piston rod, G. B. Brayton. 235,735 Packing, piston, S. M. Brown. 235,736 Packing, piston, Williams & Matthews. 235,843 Padlock, H. H. Daniels. 235,621 Paper boxes, forming the bending lines in, J. E. Stannard. 235,621 Paper boxes, manufacture of C. P. Housum. 235,622 Paper boxes, manufacture of C. P. Housum. 235,629 Patterns. apparatus for draughting, F. J. Kellogg. 235,776 Pen holder, W. H. Sprague. 235,629 Patterns. apparatus for draughting, F. J. Kellogg. 235,776 Pen holder, H. C. Benson. 235,726 Pencil sharpeners, machine for making slate, F. Rheydt. 235,831 Piston connection for indicators and pressure gauges, L. F. Lyne. 235,629 Plastic material, manufacture of articles from, J. Naylor. 235,629 Plow, R. C. Meritt. 235,629 Plow, R. C. Meritt. 235,629 Plow, sulky, W. Hemme. 235,777 Plone leyes for carriages, device for making. W. Pearce. 235,774 Propeller, screw, Stevens & Smith 255,627 Pressure and water gauge, steam, E. Jerome. 235,774 Propeller, screw, Stevens & Smith 255,627 Pump, G. H. Orliss	Currier Window screen, J. Ward Window screen, J. Ward Wire bending machine, I. A. Kiimer. Wood, preserving, L. S. Robbins (r) DESIGNS. Carpet, W. J. Gadsby Carpet, W. L. Jacobs

Rolling mill. W. H. Glover. 235,679
Roofs, construction of composite, J. Brokenshire. 235,737

hard, F. A. Nickerson 235,644

0,000	Sash fastener, D. McCuruy
9.508	Saw mill. gang, J. M. Story
35.685	Saw mill head block, S. White
5,678	Scale, pendulum, J. B. Atwater
5,655	Screw conveyer, H. W. Caldwell
5,665	Seal and tag. E. J. Brooks
5,623	Selenium to increase its electric conductivity
5,746	treating, Bell & Tainter
5,727	Sewing machine, H. N. Kjalman
5,697	Sewing machine brake, C. J. & G. F. Danielson
	Sewing machine, button hole. D. Barcellos
5,671	
9,511	Shafting, flexible, W. H. Kimball.
	Sheltering animals, device for, J. O. Austin
5,622	Ship. screw steam, Mc('arter & Cooper
5,768	
5,832	Peyton
5,754	Shutter fastener, M. Fiset
5,620	Sign, changeable, J. F. Ross
5,817	Silver from ores, extracting, G. A. Koenig
5,664	Skate. roller, E. H. Barney
5,613	Smokestack, locomotive, G. S. Strong
	Soap, perforated, H. J. Borie
5.618	Sower, fertilizer. A. Stoler
5,808	Spark arrester. D. Groesbeck
5,710	Spring saddle clip, T. W. Porter Station indicator, W. C. A. Thielepape
5.709	Station indicator, W. C. A. Thielepape
5.650	Steam boiler, Kellogg & Kirby
5,738	Steamengines, framing of beam, G. H. Corliss
5,7G4	Steering row boats, apparatus for, H. N. Staats
	Stocking supporter clasp. S. K. Ellis (r)
5,771	Stove grates, cone for, H. Tuttle
5,829	Otomo boomth T T Doot
5.837	Stove hearth, J. T. Peet
5.756	Stove or oven, gas, A. W. Morton
5,629	Stovepipe collar, G. Blair
5,650	Stove, vapor, Z. Davis
	Stump puller, W. O. Youngblood
5,769	Swimming apparatus. M. Coloney
5.775	Swing, child's, A. G. Forster
5.724	Taps, well for water main. P. E. Ober (r)
5,838	Telegraph, underground. D. Brooks. Jr
5,739	Telegraph wires into pipes, method of intro-
	ducing. D. Brooks, Jr
5,761	Telegraphy, dynamo-electric, O. Lugo235,687 to
,	Telegraphy, dynamo-electric and inductive, O.
6,627	Lugo
,680	Telephone, relay, H.C. Strong
,809	Telephone transmitter, F. A. Klemm
,,000	Telephone transmitter, G. W. Smith
,651	Thill coupling, Sanborn & Ferry
,795	Thill coupling, L. B. Stuart
,675	Thrashing machine, Hawk & Miller
5,731	Tile for roofs and pavements, illuminating, W. J.
,681	Fryer, Jr
	Time, instrument for computing, H.J. Richardson
,649	Toy, E. L. Morris
505	Traction wheel, J. Allonas
777	Truck, J. C. Peatie
,630	
790	Trunk catch. J. A. Eno
,693	Tube cleaner, M. L. Metcalf
,621	Tube testing, apparatus for, S. Myers
,814	Tube welding machines, apparatus for operating
.813	the mandrel bars of, P. Patterson
,787	Umbrella holder for vehicles, W. S. Thatcher
,670	Valve gear, steam engine, G. H. Corliss
778	Valve, safety. J. E. Crisp.
,810	Vapor burner, J. E. Donovan
,812	Vehicle running gear, T. F. Krajewski
,827	Vehicle spring seat, A. B. Smith
.642	Vehicle wheel, J. A. Pesant
,674	Velocipede, C. Wittenberg
.515	Ventilating attachment for funnels, G. M. Wlck-
.617	liffe
,818	Wagon brake, W. B. Jackson
,763	Wagon brake. A. L. Withers, Jr
,661	Wash boiler trap, H. R. Robbins (r)
	Watch, chronograph, C. H. Meylar
.636	Water cooler, T. D. Mowlds
.760	Watering column, J. N. Poage (r)
765	Watering stock, apparatus for, J. J. Ray
.628	Weights, apparatus for raising, W. & W. T. Eads.
,704	Wells, ejector for oil. L. Stewart
,507	Wheat scouring and polishing machine, W. & C.
.732	Currier
695	Window screen, J. Ward
667	Wire bending machine, I. A. Kilmer
,,,,,	Wood, preserving, L.S. Robbins (r)
,753	
,75 1	
708	
800	DESIGNS.
,800 ,770	DESIGNS. Carpet, W. J. Gadsby

)	Carpet, W. J. Gadsby
3	Carpet, W. L. Jacobs
;	Carpet, D. McNair
3	Check, bank, R. Miller
)	Clock stand. H.J. Davies
1	Curtain band, B. Dreyfus
l	
3	Knitted mitten, J. Collins
	Jewelry, G. Hartje.
3	Oil cloth, floor, J. Barrett.
3	Screw, heads of picture, R. B. Tunstall
3	Stool, piano, Archer & Lyon
3	Tobacco cutter, O. S. Harmon

TRADE MARKS.

English Patents Issued to America

From December 17 to December 21, 1880, inclusive Alloys, metallic, C. J. A. Dick, Philadelphia, Pa. lats, finishing. D. M. Easton, Arcola. N. J Heel burnisher, H. F. Larrabee, Boston, Mass. ron manufacture, C. M. Dupuy, Philadelphia, Pa. Printing machine, T. B. Dooley, Chelsea. Mass. Pulley blocks, H. Loud, Everett. Mass. Railway track, portable T. F. Krajewski 235,786 Sewing machine, J. Bigelow, Philapelphia, Pa. Refrigerator, J. H. Stiffler 235,713 Signal code, C. G. Burke, New York city. Tacks, pins, etc., W. R. Clough, Newark. N. J.
Telephones, A. M. Frankenberg, Baltimore, Md. Telephone signal apparatus G. H. Bliss, Pittsfield, Tube fasteners. E. H. Bennett, Bayonne, N. Valves and valve gear, G. H. Reynolds et al., N. Y.