54,260.—Grinding Mill.—Thomas J. Sloan, New York City, assignor to John G. Sloan, Paris, France: I claim the combination of the series of drunken saws for grinding, the two series being mounted on two shafts geared to rotate with equal volocity, and the series of clearing saws being of greater diameter than, and extending into the space between the grinding saws, substantially as and for the purpose specified. The combination of the series of grinding saws with the feed roller and the interposed rest bar, and pressure plates as the equivalent there of, substantially as and for the purpose specified. In combination with a series of drunken or nolled saws for grinding as described, the means or the equivalent there colfor giving to the feed-ing mechanism a literal reciprocating motion for the purpose of presen-ing the material equally to all the saws as set forth. 54.261.—Grinding Mill.—Thomas J. Sloan, Now York

ing the material equally to all the saws as set forth. 54,261.—Grinding Mill.—Thomas J. Sloan, New York City, assignor to John G. Sloan, Paris, France: I claim the combination of the serie of clearing disks with the series of grinding or reducing asyms when the periphery of the disks is made to travel faster than the periphery of the saws, substantially as and for the purpose described. And I also claim giving to the feeder box a reciprocating motion, sub-stantially as described in combination with the series of circular saws set with their planes at right angles with their axisof rotation, and having spaces between them, substantially as and for the purpose specified.

spaces between them, substantially as and for the purpose specified. 54,262.—Grinding Mill.—Thomas J. Sloan, New York City, assignor to John G. Sloan, Paris, France: I claim the combination of the series of saws with the series of disks formed with recesses or buckets in their peripheries for carrying and holding the grain to and wille it is subjected to the action of the saws, the saws rotating at a higher volocity than the disks, substantially as and for the purposes described. I also claim the hopper for supplying the grain to the bucket in the series of disks, in combination with the series of saws and with the series of disks constructing the lower part of the hopper with an overflow and inclined surface leading thereto, substantially as and for the purpose described. And, finally, I claim, in combination with the series of saws and with the series of disks constructing the lower part of the hopper with an overflow and inclined surface leading thereto, substantially as and for the purpose described. 42,623.—Grain Senerator.—Charles G. and William Stoll

the purpose described. 54,263.—Grain Separator.—Charles G. and William Stoll (assignor to Charles G. Stoll), East New York, N. Y.: I claim the combination of the sieve, E, with the closed box, A, and fan blower, I, or other equivalent devices, substantially as described. To blower, I, or other equivalent devices, substantially as described, so the stricter of the side o

purpose described. 54,264.—Banjo.—William B. Tilton (assignor to W. Nash), Now York City : I claim securing the parchment head to and within the cylinder or rim of a banjo or other similar musical instrument, by means of two annular rings. B and C, when arranged together and with regard to the parch-ment head and the ban pirms on sait operative. I also claim so arfanging and securing the ring. C, to which the parch-ment head is fastened within the banjo rim that it can be adjusted in position, substantially as and for the purpose described. 54.965.—Uneger...Larmes M. White (assignor to himself

Solution, substantially as a forme purpose described.
54,265.—Tweer.—James M. White (assignor to himself and David King), Springfield, Ohio:
I claim the peculiar arrangement of tweer for blacksmith forges consisting of two parts, A and B, united by the bolts, E, and having the hemispherical cup, F, resting upon legs, D, permanently attached to it which rests upon the, I, rotten piece, B, which has also a slide, C, in the boltom, the several parts being constructed and arranged substantially as und for the purpose set forth.

54,966.—Method for Preparing Magnesium for Burning.— Charles H. Wing, Newton Mass., assignor to the American Magnesium Co., Boston, Mass. : I claim the forming of magnesium wire or ribbon into the spiral colls herein described.

54,267.—Method of Purifying Hydrocarbon Oils.—John Fordred, Blackheath, England: I claim the employment of a solution of caustic soda or potash as a preliminary treatment or process of purification of the crude or of the distilled oils or dydrocarbons resulting from the distillation of coal, shale, or peat at a low temperature.

or peat at a low temperature.
54,268.—Method of Ventilating Mill Stones.—A. D. Lagog-ney, Paris, France:
I claim the combination of the two coues, M N, air-conducting box, P, spouts, P' P', pipes, TS, and stuffing boxes, Q R, the whole arranged in relation with each other and applied to a pair of millstones, substantially as and for the purpose herein specified.

as and for the purpose herein specified.
54,269.—Roller Temple for Looms.—J. Mathis, Dornbirn, Austria, assignor to H. Kayser, New York City.
First, I claim a temple composed of a series of wheels, a, set in an oblique position, substantially as and for the purpose herein shown and described.
Second, The eccentric shoulders, E, and the disks, d, which separate the oblique wheels, a, substantially as and for the purpose set forth.
54,270 —Cards for Carding Machine.—William Turner, Samuel Shore, and William Halliwell, Rochester, England :
We claim in tooth and stapler cards u ed in carding machines, the sum them of methods.

We claim in tooth and stapler cards u ed in carding machines, the sys-tem of making the prongs or legs of each staple or tooth of different lengths.

Interstand, 2011.—Method of Preparing Threads for Parti-colored Printing and for Properly Weaving the Same.—Stan-islaus Vigoureux, Paris, France: I claim the method herein described, of preparing threads for parti-colored printing, and of retaining them in their proper relative position for weaving for the purpose of preventing the marring or disfiguring of designs or patterns.

REISSUES.

KEISSUES. 2,233.—Bank and Safe Door Knob.—Lewis Lilie, Troy, N.Y. Patented July 5, 1859. First, I claim the employment of the switch or bar, D, and the nut, C, or any equivalent thereof, arranged upon and combined with the knob bot or spindle, B, inthe manner substantially as and for the purposes herein described and set forth. Second, The tapering or conical spindle, B, in combination with a door of an iron or metallic safe vault or other structure so as to prevent the lock or lock bolt switch, by which the door threof is fastened therein, from being driven from such door, from the out-side of the same, by any burgitar, in the manner substantially as herein described and set forth Third, the employment of said tapering or conical spindle. The

berein described and set forth Third, The employment of said tapering or conical spindle, B, in combunation with the lock case, c, of the lock. F, or any equivalent thereot, in the manner and for the purposes substantially as herein described and set forth. Fourth, The employment of the tapering or conical spindle, B, or any equivalent thereof, when used in the manner and for the pur-poses substantially as herein described and set forth.

DESIGNS.

2,294.—Ornament for the Head.—Sarah E. Cook, Philadelphia, Penn.:

RECEIPTS .- When money is paid at the office for sub scriptions, a receipt for it will always be given ; but when subscribers remit their money by mail, they may consider the arrival of the first paper a *bong-fids* acknowledgment of our reception of their

PATENT-OFFICE DECISIONS.

Application for a patent for Improvement in Drilling Wells.

Application for a patent for Improvement in Drilling Wells.
E. Foole, Examiner-in-chief.—The continuous rotary motion of a shaft is made to give the reciprocating movement of the drill in a manner that is ingenious, simple, and effective. To the shaft is attached a ratchet wheel, and by it, turning loosely on the shaft, is what is termed a crank, to which the rope from the drill is attached. On the crank is a pawl with its spring, against which the ratchet teeth act and carry forward the crank. The drill is thus raised to its full hight and the crank passes the center, when the weight falling, carries the erank and pawl faster than the wheel, and imparts the blow. The wheel and pawl then reconnect, and the weight is again raised.
In the principle of this invention the applicant has been anticipated by a part of the drop press of Milo Peck, patented in May, 1857. The effect of this is to limit the applicant's claims to the particular arrangement and combination he has made to effect a specific object. The claims presented in the specification seem to us to be so limited as to present sufficient invention and utility to entitle the applicant to the patent asked for.
When a real improvement has been produced we are disposed to regard an applicant's case with liberality. The device that has been supposed to interfere with this is adapted to another purpose, and is not suited to operate a drill. In making the particular application and adaptation, the applicant has displayed invention and rendered an important service.
The decision of the Examiner is reversed. Washington, D. C., Feb. 7, 1866.
Application for a patent for Improvement in Feeding Devices in machines for planing lumber.

Application for a patent for Improvement in Feeding Devices in machines for planing lumber.

Washington, D. C., Feb. 7, 1866.
Application for a patent for Improvement in Feeding Devices in machines for planing lumber.
E. Fool; Ekaminer-in-chief.—Both the upper and lower rolls that feed the boards into a planing machine are, in the applicant's device, operated by bevel gears, and the two are connected by a sliding rod that admits of their adjustment to different thicknesses of lumber. The positive motion to both rolls and the provision for their necessary adjustment without effecting the gearing is the improvement claimed, and it is said to be of much practical importance. The invention was found to be anticipated by the feeding device in the planing machine of Lorenzo Vance, patented in March, 1864, and the applicantrequested that an interference might be declared to give him an opportu ity to show that his invention was first made. This the Examiner declined to do on the ground that the applicant's claim and specification did not sufficiently distinguish his device form a still older one, patented to Samuel Whiting in 1839. And this is the question appealed to us. "In Whiting's machine is found the sliding rod by which the adjustment is made, but the upper roller only is 'propelled by the bevel gears. The board, instead of being carried forward by two positive rolls pressing upon opposite surfaces, is moved by one only, which has also to vercome the friction of the lower roll. The arrangement ot his rolls and their attachments is also less advantageous and practical than that of the applicant's in the applicant's invention, and distinguishes it from Whiting's and the Examiner's decision in regard to it must be overruled. The second claim is for "the combination with the feed rolls of the two sets of bevel gearing, F V H U, and the sliding shaft, G, substantially as and for the purposes stated." This claim is for the combination with the feed rolls of the two sets of bevel gears in the applicant's invention, and distinguishes it from Whiting's and the Examiner's decision in r

The same remarks may be made in reference to the third claim. The fourth claim, which is for the combination with the feed rolls, of mechanism for operating said rolls upon their axis and for elevating and lowering the top feed roll, substantially as herein described, may be re-garded substantially as herein described, may be re-garded substantially as herein described, may be re-garded substantially be same as the first, expressed in different language—which to prevent misconstruction is sometimes allowable. Perhaps it is sometimes am-biguous. An amendment which which should make it say "mechanism for operating both rolls," would re-move all d ficulty. The fifth and sixth claims do not appear to conflict with Whitng's device. The Examiner's decision in reference to the second and third claims is affirmed. His decision in reference to the third, fourth, fifth, and sixth claims is reversed. Washington, D. C., Jan. 1866.

Application for a patent for Improvement in Paper Ruling Machines.

Hulling Machines.
H. Foot, Examiner-in-chief. — The applicant has made the penholder in these machines adjustable in every direction by screws and jam nuts. In the means used there is nothing new. They are all found in other instruments, and to some extent, in other ruling machines. They evince the skill of the accomplished mechanic rather than the creations of the inventor. The forms are new and skillful, but this does not authorize a patent for an invention.
The decision of the Examiner must be affirmed. Washington, D. C., Feb. 1866.



N. C. G., of Mo.—Some years ago an offer was made through our paper for a machine to feed paper to a printing press, and several patents were granted for different modifications. It was found difficult to meet all the conditions required The Philadelphia Inquirer is now printed on a self-feeding pre ock's patent.

B. T. D., Mass., and M. S. M., La.-Straw hats are by putting them in a tight box, at the bottom of which a quantity of sulphur is burning.

E. S. C., Ohio .- A worm wheel 8 inches in diameter, thatruns250 turns per minute, cannot help grinding in driving a spurwheel 24 inches diameter, because the velocity of the two surfaces is so unequal. Moreover, a worm wheel is not adapted to running at a high speed. Some other arrangement should be nloved.

N. B. W.. Ind.-All instruments that can be used in ols are exceed ngly remunerative. You must be the judge as

to the probability of yours becoming popular. W. H. H. H., of Pa.—The size of the outside of a steam boiler has nothing to do with its power. The efficiency of them depends on their heating surface and the c rculation of the water. Your boiler is 5 feet high and 4 feet diameter, and you ask us if you can get 16 horse-power out of it. If you have 250 square feet heating surface, and 8 square feet grate surface you can. Such a boiler is not large enough to drive two engines 8 in. piston 14 in. stroke with 250 feet piston speed per mmute, and 125 pounds

J. H. T., Of N. Y .- Freezing food for preservation is practicable by the use of chemicals, but the cost of them is an uperable objection.

S. H. W., of Col. Ter.-We are much obliged for your letter, but the subject has been fully discussed.

TO OUR READERS.

PATENT CLAIMS .- Persons desiring the claim of any invention which has been patented within thirty years, can obtain a copy by addressing a note to this office, stating the name of the pat-

copy of warressing a note to this outer, starting the name of the pat-enticeand date of patent, when known, and inclosing \$1 as fee for copying. We can also furnish a sketch of any patented machine to accompany the claim, at a reasonable additional cost. Address MUNN & CO., Patent Solicitors, No. 37 Park Row, New York,

NEW RATES OF ADVERTISING.

FORTY CENTS per line for each and every insertion, pay able in advance. To enable all to understand how to calculate the amount they must send when they wish advertisements published we will explain that eight words average one line. Engravings will not be admitted into our advertising columns, except on payment of one dollar a line each insertion, and, as heretofore, the publishers reserve to themselves the right to reject any advertisement they may deem objectionable.

MIRTHFULNESS, WIT, FUN, etc., ILLUSTRATED; To the Boys; Music, its Influence; OUR NATIONAL CURRE; Sitting by the Fire: Business Colleges for Ladies; New Books; To Correspondents, etc, in May No. PHRENOLOGICAL JOURNAL. 19

\$1500 PER YEAR, paid by SHAW & CLARK, Biddeford, Me., or Chicago, III.

MPORTANT TO TRAVELERS.— THE PORTABLE RAILWAY HEAD REST or POCKET-BERTH. Patented July 4tb, 1665. SUBSTANTIAL, SIMPLE, COMPACT. By means of the above invention, Railroad travelers may sleep at their pleasure, and ride days and nights continuously without ex-periencing fatigue. To Railway Companies, Railroad Agents, and Hotel Proprietors a iberal discount is made. Agents wanted in all the principal cities. Address JOHN R. HOOLE, Selling Agent, 19 tf No. 124 Nassau street, New York.

ONE HYDRAULIC PRESS.— 40-in. PLATEN, 18-in. Ram, with Pumps etc. One large Dick's patent Shears. Draw-ing-bencb, Rolls, and other Machinery. Apply to H. H. CASEY. No. 601 Broadway, New York.

NCRUSTATIONS PREVENTED BY WINANS'S ANti-formatation Powder No foaming nor injury. 10 years' refer-es. Cheaper than any imitations offered. H.N. WINANS, 11 Wall street, New York.

FOR SALE.—STATE RIGHTS OF MURPHY'S IM proved Burglar Alarm. Patented Jan. 12, 1866. Address G. E. WILSON, 12 West 129th street, New York.

\$150 A MONTH ! NEW BUSINESS FOR AGENTS. [19 13] H. B. SHAW, Alfred, Me.

DARTNER WANTED IN A PLANING MILL AND Bash and Blind Factory, just starting in Nash tille, Tenn. To a man familiar with the busines, and who bas ceptical, this is a good chance. Address UILLAR SUTHERLAND, Box 993, Nashville, Tenn.

WATER WHEELS.—THE HELICAL JONVAL TUR-BINE, for first-class mills, where great economy of water is desired, madeby J. E. STEVENSON, Hydraulic Engineer, 40 Dey street, New York.

TURE NITROUS OXIDE, MADE BY SPRAGUE'S Patent, at less than half the usual cort. Rights sold and guar-anteed. [1949] A. W. SPRAGUE, 89 Washington street, Boston.

STATE RIGHTS OF A NEW AND IMPROVED WINE Machine, [193*] Address W. S. KIMBALL, Rochester, N. Y.

STEAM AND WATER GAGES, SCOTCH GLASS Tubes, Counters, Indicators, and Pyrometers for sale, E. BROWN, 311 Walnut street, Ph ladelphia, Pa.