to bollers. These, although most nearly approximating the invention of Riley, do not anticipate it. Judgment is to be rendered for the plaintiffs against the Merrimack Man-uf acturing Company, for infringement of the first and second claims of patent No. 114,711, for three hundred and fifty dollars, and against the Law-rence Manufacturing Company for seventy and forty-one numdred the dol-lars damages, with interest from the date of the respective writs. G. L. Roberts, for defendant.] THENEW GUIDE TO ROSE CULTURE. Published Annually by the Dingee and Conard Company, Rose Growers, West Grove, Chester county, Pa. Price 10 cents. The successful cultivators of roses who publish this interesting pamphlet have introduced a new system of supplying their numerous customers with rose trees. They send them by mall, and guarantee their delivery in good order. Thus smetures of roses can be then an end fully dollars and against the choicest with rose trees. They send them by mall, and guarantee their delivery in good

# United States Circuit Court---Southern District of New York.

PATENT JEWELRY.—LEWIS J. MULFORD et al. vs. THOMAS D. PEARCE et al. [In equity.—Before Shipman, J.—Decided November 3, 1875.]

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order. Thus amateurs of roses can obtain specimens of all the choicest varieties of this most beautiful flower, merely by sending a letter and post office order to the growers, as above. The New Guide is published to aid purchasers in making a selection; and it contains a complete list of all the roses now in demand, with detailed particulars. Illustrations and descrip-tions of other plants and flowering shrubs are added, together with other valuable information on floriculture. See a further announcement in ou advertising pages.

THE EDEN OF LABOR, OR THE CHRISTIAN UTOPIA. By T. Wharton Collens, Author of "Humanics," etc. Price \$1.25. Philadel

phia, Pa.: Henry Carey Baird & Co., 810 Walnut street.

Mr. Coilens announces, in his preface, that his design is to develop a practical plan for the application of the fundamental principle. "admitted by all political economists," that "labor is the real measure of the ex-changeable value of all commodities and services," and to show that the principle and its application rest upon the duty of Christians towards God and each other. Such of our readers as may read the book will be supprised at many of its statements, and at the autocratic manner in which the author lays down his opinions; and the strange commingling of the holiest ames and the most solemn subjects with inflation theories and the advo cacy of paper as a source of wealth would be amusing but for its irreverence. We do not think that the currency question is to be settled by such publications as this.

THE TEXTILE COLORIST, a Journal of Bleaching, Printing, Dyeing and Finishing Textile Fabrics, and the Manufacture and Application of Coloring Matters. Edited by Charles O'Neill, F.C.S.

Author of "The Chemistry of Calico Printing, Bleaching, Dyeing, etc." Nos. 1 and 2. January and February, 1876. Subscription price \$12 a year, payable in advance. New York city: John Wiley & Sons, 15 Astor Place.

This monthly publication gives promise of being a technical journal of he highest order. Its subject has long been the most interesting and progressive branch of industrial chemistry; and the rapidly extending use of chemical dyes gives additional value to such thoroughly digested and trust worthy information as this serial contains. The following articles are found in the pages of the first number: "Lime Juice, Argols, Citric and Tartaric Acids," "Methylanlline Purple on Cotton," "Straining Colors by Atmospheric Pressure.'' and "Sulphur as a Mordant for Aniline Green.' Contemporary news as to new discoveries, patents, reviews, etc., is added and an extended treatise (by the editor) on "The Practice and Principles of Calico Printing, Bleaching, Dyeing," etc., is commenced in this issue. The publication is illustrated with diagrams, etc., and each number contains 96 pages.

SPECIFICATION AND WORKING DRAWINGS OF A SWISS GOTHIC FRAME COTTAGE. By D. T. Atwood, Architect. New York city: A. J. Bicknell & Co., 27 Warren street.

This publication would be useful to many of our readers in the West and South, and to any one who desires to build a serviceable and elegant cottage without the assistance of an architect. The design of the structure is commendable, and the interior is especially arranged with a view to convenience; and the specification lays down the requirements for a well built and commodious house. Such usefully practical publications deserve the highest recommendation.

BURLEY'S UNITED STATES CENTENNIAL GAZETTEER AND GUIDE FOR 1876. Edited by Charles Holland Kidder. Philadelphia, Pa. S. W. Burley, Proprietor and Publisher.

This handsome volume is a general cyclopædia, historical and statistic, of the United States, both now and during the past century. The information as to the Centennial Exposition is extensive, and apparently accurate; and the industrial statistics are elaborate and well arranged. The book is likely to have an extensive sale.

DESIGNING BELT GEARING. By E. J. Cowling Welch, Author of "Designing Valve Gearing," etc. Price 20 cents. New York city: E. & F. N. Spon, 446 Broome street.

This is a very elaborate treatise on a simple yet important subject, and will be useful to such of our readers as understand the higher mathematics. THE CREED OF FREE TRADE. By David A. Wells. New York

city: Hurd & Houghton, 13 Astor Place.

Mr. Wells commences his text with the indisputable axiom that the high est right of property is to *freely* exchange it for other property; and the truths that he deduces from this maxim are as self-evident as their source,

THE ECLECTIC MAGAZINE for March has a remarkably good table of contents. We can cordially recommend this magazine to our readers as one of the most instructive and useful of our monthly periodicals. It contains the best short papers which appear in the English monthlies, selected with great discrimination and indgment, besides one or two good continued serials. The present number; has Mr. Gladstone's address on "Science and Art,'' Dr. Bastian's essay on "Why Animals have a Nervous Sys-tem,'' "Her Dearest Foe" and "Jonathan" (continued), besides arti-cles on "Montenegro,'' "Richelleu,''' German Home Life,'' "The Un-seen Universe,'' etc. The only objection to the magazine we can find is its embellishments. This month, there is a steel engraving of President Bar-nard, which, as a likeness, is almost as bad as a bust for which the learned and amiable scientist patiently sat during a recent American Institute Fair, to the delectation of a gaping crowd and to the furtherance of the reputation of the aspiring sculptress. If somebody would buy both plate and bust, and scrupulously destroy them, it would be a service both to Dr. Bar nard and to posterity.

HARPER'S MAGAZINE for March contains an illustrated article on the Danube Principalities, which is of timely interest with reference to the recent Herzegovinian outbreak. Professor Samuel Lockwood contributes a paper on the " Microscope," written in plain and simple style and copiously embellished with engravings. George Eliot's "Daniel Deronda," the reigning sensation of the literary world, is continued; another instalment of the "First Century of the Republic'' series treats of the progress of literature in this country; and there is the usual good selection of short stories, beside the summaries, scientific and otherwise, of recent events.

#### IMPROVED PAPER FILE FASTENER.

Charles D. Lindsey, Cincinnati, Ohio.-This fastener is made of a single piece of metal split for a certain distance at each end. The strip is then folded lengthwise. The split portion at one end has each extremity bent at right angles, while the ends of the other split part are sharpened. The latter are inserted through the paper and bent flat.

# IMPROVED INVALID CHAIR.

Cevedra B. Sheldon, 7 State street, New York city.-Mr. Sheldon now offers another ingenious device, in the shape of an easy chair suitable for physicians' or invalids' uses. It has an adjustable foot est arranged to be raised upon its pivots to a horizontal position, and a back to fall down on a level with the seat, to form a bed or lounge. It also folds up for storing away compactly. There is an improved contrivance of the adjusting back support, a new arrangement of the adjusting foot support, and a cane bottom for the latter. The entire chair is of very light but strong construction. Mr. Sheldon is one of the most persistent inventors we have ever known. His patents must now number in the neighborhood of fifty; and as he is yet a young man, we have no doubt but that his "centennial" invention is a future possibility.

IMPROVED BACK STRAP BUCKLE AND TRACE CARRIER.

James W. Weed, Clarinda, Iowa.-This is a simple fastening device for the back and hip straps of harness, by which the cutting and stitching of the same 18 obviated, and a stronger and more durable connection of the straps obtained, while it furnishes also a hook support for the traces when the animals are detached from the vehicle. It consists of an oblong device with loops at all sides, and a central vertical pin for the fastening of the crossing straps. The side loops of the hip straps are furthermore provided with Tshaped hooks or carriers for the traces.

#### IMPROVED LAMP TRIMMER,

Philip Sidney Lyman, Chicago, Ill.-The invention relates to the construction of lamp trimmers, so that the wick may be cleanly cut and with perfect evenness, and consists in making it with handles angled at their ends, working upon the same fulcrum, one moving in a vertical, while the other moves in a horizontal plane, and provided with cutting blades, kept in continual close contact by guides that project from one of them.

IMPROVED TRUSSED STANDARDS FOR PIANOS.

Edwin Oakley, Lerrika, Ovalan, Fiji Islands.—The object of this invention is to provide a standard which shall counteract the overhanging strain of wires and prevent curving or bending in the back of upright pianofortes. It consists in the combination with upright pieces having obtuse angular grooves, and a tapering mortise, of trusses fitting in said grooves, and a wedge fitting in said mortise, and the whole so arranged as to form a rigid and secure brace for the standards, for the purpose of resisting the tension of the wires.

### IMPROVED TOY PISTOL

O. C. Butterweck, St. Louis, Mo.-The invention relates to a pistol whereby a marble may be ejected from the barrel with considerable striking force, by a rear-impelling spring that drives the piston rod forward as soon as the latter is lifted by the trigger. By the peculiar mode of combining the trigger and piston rod with the spring, the impulse is given with great facility, and without any iability of deranging the aim.

#### IMPROVED LIGHTNING ROD.

Isaac Johnson and David A. Price, Chicago, Ill.-The invention relates to that class of lightning rods made of tubular form and in everal parts joined together. It consists in reinforcing and stiffening the tube sections with a metallic rod that does not fit up to the inside of the tube, but is maintained in a rigid and immovable position on the axial line of the outer cylinder by attachment at each end to a coupler; also in combining with each section a pair of peculiarly constructed couplers, one having a threaded socket and the other a screw, while each is provided with an opposite central recess for receiving the strengthening rod, and a conical cavity at the outer end of the recess for directing and guiding the end of the rod to its rest in the recess.

# NEW AGRICULTURAL INVENTIONS.

# IMPROVED PORTABLE FENCE.

Urias Crayton, Davidson College, N. C.-The invention relates to portable fences which may be employed for different cross lines at different times, and consists in causing a tapered edge of one panel to fit into a corresponding groove of the next adjacent one, thus preventing one panel from ever being forced past another by an ordinary pushing force or by a wind.

# BAND CUTTER AND FEEDER FOR THRASHING MACHINES.

Godfrey L. Gearhart and Nicholas W. Hoffman, Lebanon, N. J.-This is an automatic feeding apparatus for thrashing machines, by which the sheaves are readily and evenly cut, spread, and conveyed to the thrasher without an attendant. The invention consists, mainly, of a reciprocating shaker with a side shelf, from which the sheaves are pushed on stationary fingers, arranged concavely with cutting knives to cut the bands. The stalks are dropped through the fingers and pushed forward by lateral strips of the sbaker, to be then evenly distributed by vibrating rakes, and conveyed to the thrasher.

# IMPROVED HAY STACKER.

Moses Amidon, Lathrop, Mo.-In using this device, a rake is drawn over the field by horses until loaded. The loaded rake is then drawn upon and then from the platform, leaving the rake load of hay within the hopper. As the rake passes from the platform the horses are stopped, and suitablearrangements are made whereby the hopper is caused to carry the hay over and discharge it upon the stack.

There should be a decree for an injunction, and a reference to a master to take and state the account. [B. F. Lee and A. Alvord, for complainants, Jos. C. Fraley and Henry Badwin, Jr., for defendants.]

NEW BOOKS AND PUBLICATIONS.

THE INTERNATIONAL REVIEW. March-April, 1876. Published Six times a year. Subscription price, \$5. New York city, Chicago, and New Orleans: A. S. Barnes & Co.

To the scientific reader, the most interesting paper in this number of the above periodical is Professor Vogel's "Chemical Action of Plants," in which the invaluable assistance of plant life to mankind, in the accomplishment of many purposes which human skill and scientific industry do not, and perhaps never will, enable us to perform, is demonstrated by a variety of illustrative instances. Professor Proctor's "Essay on the Structure of the Universe'' reveals no new thought, and is characterized by the same peculiarity of that astronomer which obtrudes itself in many other of his recent productions, namely, of saying little and writing much. For a scientist whose ideas have undergone such radical changes, amounting to the abandonment of previous convictions, and whose present notions may undergo like revolution in the future, it would appear safer to speculate less, or, at least, not to extentuate his thoughts through a multiplicity of books and essays. A careful memoir of Professor Cairnes, the great English political economist, is contributed by Mr. George Walker. There is an instructive article on "Bardism," and a useful paper on "The Old and the New South," beside a valuable series of reviews of recent foreign p ublications

Harper & Brothers, New York, \$4a year.

THE SANITABIAN for March opens with a lengthy paper, forming, as a iswyer would say, a "case" in favor of the use of salt for the removal of snow from the streets. All the evidence in the shape of professional opinions, pro and con, is adduced, and a preponderance appears to exist in favor of salt, a sommittee of the College of Physicians, among other authorities, certifying to its non-deleterious influence as regards public health. Dr Bailey has a sensible article on "Ventilation of Churches," Mr. A. H. Dana tells of the "Uses and Abuses of Life Insurance" in a clear and concise essay, and there is an address, recently delivered by Dr. Doremus, on " Milk in its Medico-Legal Aspects." \$3.00 a year. McDivett, Campbell & Co., Publishers, 79 Nassau street, New York.

# Becent American and Loreign Batents. NEW CHEMICAL AND MISCELLANEOUS INVENTIONS.

# IMPROVED FRUIT DRYER.

Samuel W. Hope, Dover, Del.-This device includes a flue-shaped chamber having a heater at the bottom and a system of small tubes at the sides, for taking some of the air up around or by the trays, and discharging it into the drying flue again, between the trays, and also another system for drawing out the air from the spaces between the trays as it becomes charged with moisture by evaporation of the moisture of the fruit.

# IMPROVED SWARM BOX.

Andrew Harbison, Newcastle, Pa.-The object of this invention is to catch swarms of bees as they issue from the parent hive, and keep them confined until at leisure to introduce them into new habitations, thereby saving much time of the attendant, risk of several swarms mingling together, and the consequent destruction of their queens, as well as the danger of leaving for the woods. The swarm box is constructed of thin light lumber, except the top, which is of wire cloth. The swarm is caused to pass through a tube extending inward and upward, at an angle of about 45°. The edges around this tube are armed with wire pickets, the object beirg to prevent the bees from again returning to the parent hive, as they cannot successfully pass over the wire pickets. On the sides, in the interior, there are shelves on each side for the swarm to cluster on, as a support is necessary when a swarm is to remain in the box for some time before hiving.

### IMPROVED BUTTER PACKAGE.

Andrew J. Dibble, Franklin, assignor to himself and David G. Landon, Delhi, N. Y.-This inventor proposes a new butter form, constructed of a single block of wood, having conical cavity, in which the butter is packed. These forms may be packed together and transported. The inventor states that they will cost about one cent a piece; and after the butter is once packed in them it need not be disturbed until each reaches the consumer. Each form is made to receive a given weight of butter.