## Becent American and Foreign Latents.

#### Under this heading use shall publish weekly notes of some of the more wron Nent home and fureign patents.

SEAT FOR VEHICLES.—Lewis Pray, Portland, Me.—The object of this invention is to provide a movable folding seat for buggies and other light vehicles where it is frequently desirable to economize space.

FURNACE.—T. J. Leigh, London, England.—This invention relates to certain improvements in furnaces, and in effecting the combustion of fuel therein, whereby several advantages are obtained over the ordinary furnaces in use.

AUTOMATIC CROSS-FEED FOR LATHES OR BORING MACHINES.—Lewis Gris com, Mahanoy Plane, Pa.—The object of this invention is to accomplish the cutting of tapers on shafts and the boring of the corresponding tapering hole for the reception of the tapered shaft in a simple, accurate, and automatic manner.

FRUIT BUTTER STIRRER.-M. G. Collins, Baltimore, Md.-The frame which supports the stirring apparatus, and to which the lids are hinged, is attachable by thumb screws to the rim of the kettle. The stirring devices consist of a crark shaft, bevel pinions, and a vertical revolving shaft with arms.

CAR AXLE BOX.-A. H. Nathans and M. Thornton, Macon, Ga.-This invention is an improvement upon the axle box patented by D. H. Dotterer, April 8d, 1866, and consists in so constructing the spring packing plate used in his invention, that the oil cannot escapetrom the box, whereby the value of the whole device is greatly enhanced.

PLOW.—Thomas P. Warren, Nortolk, Va.—This invention relates to the plow patented by Warren and Woodhouse, on the 18th day of June, 1867, and consists in a new form and construction of the guide used in connection with the landside, and in a new method of attaching the moldboard to the standard, by which the parts are rendered more completely adjustable and the cost of construction is greatly reduced.

HATAND COTTON PRESS.—Grey Utley, Charlotte, N. C.—In this invention the form of the press box and platen is the same as that now in common use, but by a new arrangement of guide rois for the platen in connection with a novel clamp and hand levers, the press may be operated by hand more rapidly and with greater advantages in regard to the application of the power and its full utilization than any of the hand or power presses now n use.

CCEN FLANTER.—John Ellbertson, Kirksville, Mo.—In this invention the cornis planted by an instrumen, which can be carried in one hand and used in the manner of a cane. The device is intended to facilitate the work of planting or dropping the seed, and to obviate the necessity of stooping for that purpose.

APPARATUS FOR MAKING CARBONATE OF LEAD.—Otto Jacobi, Philadelphia, Pa.—This invention relates to an apparatus for converting, by the action of acetic and carbonic acids, lead into carbonate of lead. The invention consists in combining with a converter in which the lead is contained, a vinegar making apparatus and a furnace, all acting inconjunction with each other, the heat of the furnace causing the vapors to arise from a vesel containing vinegar mash, and to travel to the vinegar apparatus, whence the acetic acid arises into the chamber or chambers that contain the lead, converting the lead or its outer faces into acetate of lead. Carbonic acid us then conducted into the converter to transform the acetate into carbonate ot lead.

FLOUR SIFTER.-Johann Nowak, New York city.-This invention relates to a flour slifter to be especially used by bakers, its object being to facilitate the process of sifting the flour and to economize labor.

LINIMENT.—William P. Hamlin, Exira, Iowa.—The object of this invention and discovery is to provide an effective (and sure remedy for wounds and bruises, and for most of the pains with which mankind are afflicted.

PROCESS IN MANUFACTURING BILLIARD BALLS.-William H. Lippincott Pittsburgh, Pa.-This invention relates to the manufacture of balls used in playing billiards, baggatelle, and other games where globular balls are employed, and the invention consists in forming such balls of vulcanized india-rubber.

AMMONIAIZING SUPERPHOSPHATE OF LIME.—John S. Ramsburgh, New Market, Md.—This invention consists in ammonialzing superphosphate of lime in such a manner that its iertillizing qualities will be preserved when the same is exposed to the atmosphere.

FINGER FOR SHUTTLE STOP MOTION FOR LOOMS.—E. S. Laney, Waterloo, N. Y.—The nature of this invention relates to improvements in fingers for shuttle stop motions for looms, whereby the same are made less liable to get out of proper position on the oscillating rod which actuates the touch off fingers, by reason of the sudden shocks and strains to which they are exposed rom the action of the shuttle.

MACHINE FOR MAKING PAPER PULP.—Warner] Miller, Herkimer, N. Y.— This invention relates to an improved mode of operating the followers, whereby the wood to be ground is pressed against the periphery of the stone, a positive mechanical device being used in the original patented machine, but in thissprings or weights are employed, so arranged and applied that the machine is greatly simplified, and made to operate in a more perfect manner. It also relates to an improvement in the screening apparatus, whereby the pulb is not only deprived of all coarse, foreign substances, but also separated or divided into two or more different qualities with respect to the length and diameter of its fiber, whereas the original machine separated the pulp with respect only to the diameter of its fiber, and the different parts thus separated discharged from the machine at separate points, so that they cannot mingle with each other.

LAMP BURNER.--Wm J. Ross, Worcester, Mass.--This invention relates to a lamp burner, and it consists in the application of vents or tubes to the burner or socket thereof. for the purpose of admitting external air into the lamp and preventing explosions, now due to the accumulation of vapor or gases in the lamp, above the oil. It also consists in a novel and improved means for raising and lowering the wick, and in an improved fastening for securing the chinney to the burner; and finally, in an air guide constructed in such a manner as to prevent or conduct the air to the fiame, and cause the latter to burn in the most favorable manner, both as regards form or shape and illuminating power.

LOADING HAY.AND GRAIN.—S. R. Higgins, Parma, Mich.—This invention relates to a machine to be attached to a wagon or cart for the purpose of loading the same with hay orgrain as it is drawn over the field.

WHEAT DRILL.-James W. Davidson, Mount Auburn, Ill.-This invention has for its object to furnish an improved machine for sowing wheat or other grain in drills, which shall be convenient and accurate in operation, and which shall cover the grain at a sufficient depth ibeneath the surface of the ground to protect it from the winter.

ANNUNCIATOR FOR HOTELS, ETC.—N. A. Patterson and H. T. Carr, Winchester, Tenn.—This invention relates more particularly to an annunciator for hotel purposes, though the same mechanism and principle may be applied to other buildings, as large publishing houses, manufactures and stores. It consists of two corresponding dials, on which are written, engraved, raised, printed, or painted, the wants or orders common in whatever building or business the annunciator is designed to be used.

LAMP BURNER.—Gilbert Lavere, Bridgeport, Conn.—This invention consists in the combination of two chambers forming an essential part of a burner for petroleum lamps, together with other devices perfecting the whole.

POLE TIP.—Alonzo Benedict, Albany, N.Y.—The object of this invention is to provide a metallic tip for the tongues or poles ! of carriages, which will not strain the leather of the neck yoke to so great a degree, nor distort the ame to so great an extent as the pole tips heretofore used, and which will enable a lighter and neater neck yoke leather to be used.

APPARATUS FOR OPERATING HORSE HAY FORKS.-George M. Robinson, New Wilmington, Pa.-This invention has for its object to furnish an improved device for supporting andholding the fork while carrying a fork-load of hay to the mow and while returning empty for another load.

**EXTENSION TABLE.**—De Lance Cole, Marshall, Ill.—This invention bas for its object to furnish a simple, inexpensive, convenient, and substantial means for enlarging or extending an ordinary breakfast or dinner table to any desired size or extent.

SPRING SEAT FOR SADDLES.-Robert J. Steele, Jr., Rockingham, N. C.-This invention has for its object to furnish an improved spring seat for saddles, which shall be so constructed and arranged as to be easy and comfortable to the rider, however rough may be the horse's gait.

PERPETUAL CALENDAR.—Charles T. Pooler, Deansville, N.Y.—Thisinvention relates to a calendar i which is so arranged that it can be used continually to record the days of the week or month and that the days of the week can be set over the figures of each month in such a manner that the device is applicable for each year.

TOBACCO PIFE.—Henry G. Dayton, Maysville, Ky.—This invention relates to a tobacco pipe which consists of an outer bowl, without a bottom, and of an inner bowl that is fitted into the outer bowl, and that is, by the tube projecting through a perforation into the inner bowl, held in place.

ADJUSTABLE COUCH.—Godfrey | Widmer, New York city.—This invention relates to a couch which is provided with an adjustable head rest, so that it can be adapted to any desired position of the body. The invention consists of a longitudinally and transversely adjustable frame, upon which a sheet of canvas or other fabric is stretched. and of a frame swinging within a fixed frame and projecting above the same, so as to elevate' the canvas and to form the head rest of the couch.

WATCH.—Charles Springer, Newcastle, Pa.—This invention consists in applying about and around the standing collar surrounding the winding arbor, a center square which moves the hands, or both, of a watch movement, for instance, of that class known as the "American," an adjustable prooved collar, having a suitable packing medium, to form a tight and close joint when the watch is shut, with the case thereof, and thus exclude; the entrance of dirt to the interior mechanism of the movement.

**BAIL EARS FOR PAILS.**—Jonathan Walton, Brooklyn, N. Y.—This invention relates to an improvement in ball ears for wooden and sheet metal or the pails, and it consists in constructing the ears of wire bent in property or m and attaching them to the pail either by clinching or by soldering.

COEN PLANTER.—A. J. Going, M. D., Clinton, La.—This inventio . ates to a machine for planting corn and other seed, such as peas, rice, etc. a dis an improvement on that class of seeding machines in which a rotating wheel provided with seed cells in its periphery is used for a discharging device. The invention consists in a speculiar application of a small metallic plate, whereby the seed cells of the wheel, as they rotate and pass from underneath the shopper, are cut off from the grain or seed contained in the latter, so as not to have the seed cut, bruised, or injured in the least.

AERIAL NAVIGATOR.—Zaphna Stone, Kinsman's, Ohio.—This invention relates to a device for navigating the air, and it consists in constructing a balloon in a novel way, whereby it;; may be made to rise and descend at the will of the operator or navigator, and be under the complete control of the latter.

COEN PLANTER.—Wm. H. Fish, Scarsdale, N. Y.—Tbis invention relates to a device for planting corn and other seed in hills, and it consists in a novel construction and arrangement of certain parts, whereby the seed may be dropped regularly at proper intervals.

WATERINDIGATORAND ALARM ATTACHMENT TO STEAM BOILERS.—Thomas Flinn, Brooklyn, N. Y.—This invention relates to a device for indicating the hight of water in steam boilers, and for sounding an alarm if the quantity of water should rise or fall in the boiler beyond the required limits. The invention consists in the use and combination of a cylindrical vessel, which is screwed or otherwise secured upon the boiler, with a rod which is supported by a float above water, and which fits into the cylindrical attachment, baving apin by means of which the hight of the water , will be indicated on a graduated scale arranged on the cylindrical vessel.

SUSPENSION BRIDGE.-Edward M. Carpenter, Middletown, N. Y.-This invention relates to a suspension bridge which is so arranged that it can always beheld tense, and that it does not depend upon the construction and strength of the top and bottom cord. The invention consists in making each of the uprights of the bridge of two pieces, which are not at all connected with each other, and between which from above a wedge is inserted which drives the upper ends of each pair of uprights apart, thereby stretching all parts of the whole bridge frame, and producing the desired arch.

SPOOL HOLDER.—A very neat contrivance for holding spool cotton is the invention of G. A. Pridham, Newark, N. J., Ppatented Jan. 28, 1868. Spools of various numbers of thread are placed in a row inside a plated holder, the size being engraved on the outside of the case, so that any required number may be tried by the seamstress without taking the spool from the case till the thread is used up.

DOOR BOLT.-G. A. Pridham, Newark, N. J., patentee.-The advantages of this invention are that it is impossible for the boltto be moved except by the knob on theinside of the door. Thisknob combines a screw fastening, which is forced against the bolt after it is operated, and holds it firmly in place, so that it cannot be forced back from the outside. J.H. Jillson, general agent, corner of Walnut and Mullberry streets. Newark, N.J.

THAWING OUT FROZEN WATER PIPES.—William Young, Easton, Pa.—The object of this invention is to provide means for readily thawing out the ice in water pipes when they become unserviceable from treezing, and also to be used for other purposes of a similar nature, and the invention consists in the use of steamfor that purpose in the manner described.

### Answers to Correspondents.

CORRESPONDENTS who expect to receive answers to their letters must, in all cases, sign their names. We have a right to know those who seek in formation from us; besides, as sometimes happens, we may prefer to address the correspondent by mail.

SPECIAL NOTE-This column is designed for the general interest and instruction of our readers, not for gratuitour replies to questions of a pure '2 business or personal nature. We will publish such inquiries, house er, when paid for as advertisemets at \$ 00 a line, under the head of "Lustness and Personal."

All reference to back numbers should be by volume and page.

R. A. D., of Fla., asks the amount of feed per certain number of revolutions of a circular saw working in hard Florida pine. "Doctors disagree" in this matter. A good manual on sawing is Parson's "Sawyers Companion."

F. W. W., of Md., asks if "a small boat twenty feet in length, if built for the purpose, can be propelled with less exertion by a propeller wheel than by two oars, and what should be the pitch and number of blades." Experiment alone can determine the relative value of oars and screw undersuch circumstances. There are, however, several objections to the latter on a small boat, apart from the question of relative speed or ease of propulsion.

E. H. B, of Mich.—The Watt formula for horse-power of a steam engine can be found in Muirhead's "Life of Watt," and that and the difference between nominal and indicated horse-powerhas been repeatedly shown in our columns.

# Business and Versonal.

The charge for insertion under this head is one dollar a line.

Two sets superior iron-frame cards, 48-in. breakers, 40-in. finishers, one 30-in.double-cylirder roll card,one 24-in.do.one 200-spindle jack. For sale cheap. Apply at Union Iron Works, Rhinebeck. N. Y.

Wanted—the address of every canvasser in the United States. Send two stamps to P. & K., Box 2359, Cincinnati. Ohio.

I desire to buy a popular patent for the State of New York. AddressA. Roberts, Box 2931, Buffalo, N. Y.

For Improved Lathe Dogs and Machinists' Clamps, address, for Circular, C. W. Le Count, South Norwalk, Conn.

Brick Machine.—Lafler's New Iron Clad has more advantages than any other ever invented. For descriptive circular address J. A. Lafler & Co., Albion, Orleans county, N. Y.

Broughton's graduating lubricators for steam engines cannot leak, and are the only reliable ones.

Manufacturers of W. H. Culf's patent pump send card and price list to R. C. Vanderford, Centralis, Number county, Kansas.

Funston's electric toy.—See advertisement.

Mill-stone dressing diamond machine, simple, effective, and durable. Also, Glaziers' diamonds, and for all mechanical purposes. Send stamp for circular. John Dickinson, 64 Nassau st., New York.

For Sale-Eight new portable steam engines, thirty horsepower each, of superior construction. Address Poole & Hunt, Baltimore.

First class lock makers wanted. Address Jones & Nimick Manufacturing Co., Pittsburgh, Pa.

Make your patents pay !-J. H. White, Newark, N. J., will make and introduce to the trade, all descriptions of metal goods.

Olmsted's oilers—the most durable and convenient made. Sold by all dealers from Canada to California.

H. F. Speer, Rockport, Ind., wishes to purchase a small locomotive similar to the one described in this paper April 4th.

Broughton's standard oilers are the only really first-class ollers.

Volumes, numbers, and entire sets of Scientific American for sale. Address Theo. Hagar, Box 773, New York city Postoffice.

Agents wanted for Allison & Co.'s iron cement. It will stick anything together, and is not affected by water. A sample bottle will be sent, postpaid, to any address, on receipt of 25 cents. Allison & Co., Box 118 Sing Sing, N. Y.

Joseph Anzer, Box 762, Ashtabula, Ohio, wants an endless screw 3½ inches long, and worm, 16 to 18 inches diameter, center here 1% inches.

Winans' Incrustation Powder, (11 Wallst., N. Y.) A positive remedy for scaly boilers, warranted effective and uninjurious. 20,000 ref'ns.

### NEW PUBLICATIONS.

MAP OF THE UPPER PART OF NEW YORK CITY, including a Topographical View of the Central Park. Hamilton E. Towle, C. E., City Surveyor.

This is an elegant pocket map of that portion of New York extending from a point two blocks below the southern end of Central Park to Spuyten Duyvit Creek, the upper or northern boundary of the city, with a representation of the proposed "west side" improvements, and correct plans of the Central Park and other reserved territory, with a route of the avenues and the proposed new Boulevard, all made from actual surveys and drawn to scale. It is the clearest, most definite, end comprehensive map of that portion of the city, except the one attached to the Central Park Commissioners' Report, we have yet seen, and will give the citizen as well as the stranger a correct idea of different points, and serve as a valuable guide to persons desiring to purchase desirable lots in this Babylon of the Western Hemisphere. The map is produced in colors by the American Photo-Lithographic Company, and may be obtained of the publisher. 78 Cedar street. New york city.

CENTRAL PARK REPORT.

CHART OR MAP ROLLER.-E. L. Hagar, Empire City, Col. Ter.-This invention relates to a roller for maps or other similar charts, and it consists in arranging the roller therefor within a case, that is suitably constructed to allow the map or chart attached thereto to be rolled up or unrolled at pleasare through and by means of cords and tassies, or other suitable devices, the case encasing the charts when rolled, and protecting them from becoming solied or injured.

STUMP MACHINE.—Isaac J. Bogert, Fayette, Iowa.—This invention has for its object to furnish an improved machine for pulling stumps, raising and moving heavy weights, etc., which shall be simple in construction, easily operated, and powerful in operation.

PALLET FOR WATCHES, ETC.—Charles E. Mason, Elgin, Ill.—This invention relates to a novel manner of inserting the jewels or pallets in the block or stud provided for them.

COMBINED BEDSTEAD, CHAIR, SECRETARY AND WARDROBE.--Wm.Reckards, New York city.--This invention relates to a combination of a bedstead, chair, secretary and wardrobe, and it consists in a novel constructio and arrangement of parts, whereby the device may, by a very simple manipulation, be converted into any of the articles above mentioned, and when not in use be capable of being adjusted or folded up to represent a book case, or other similar piece of furniture.

FURNACE FOR THE MANUFACTURE OF CAST STEEL.—Francis Ellershausen, Montreal, Canada.—This invention relates to a furnace for the manufacture of cast steel from pig iton, in conjunction with wronght iron or iron ore, and for the purpose of smelting bilstered steel in large quantities, and for resmelting metals in general. The invention consists in the novel combination of two fire chambers, which are separated by a bridge; a large crucible being set up in one chamber, the fire in which chamber surrounds the crucible, while the other is a reverberatory fire chamber, by means of which the heat around the crucible is brought to an extreme degree.

VENTILATING COOK STOVE —Luthur M. Parsons, Waukau, Wis.—This invention relates to a method of ventilating a room and of supplying the necessary air to the burning fuel, and it consists in arrangement of flues, dampers, and pipes, whereby the impure air in the upper portion of a room is made to supply the fire, thereby preventing the current of tresh and healthy air which flows toward the stove on and near the floor to supply the dratt from being drawn off, but retaining it for purposes of respiration.

HEMP BREAKING MACHINE.-J. S. Hoskins, Spring Hill, Mo.-This invention relates to a hemp breaking machine, and consists of a main frame on which are set two rollers on the peripheries whereot are a number of sharp plus similar to the hackle teeth of hackling cylinders.

CENTRAL FARE MEPORT.

We are indebted to Andrew H. Green, Esc., Comptroller, f or a copy of the report of the Board of Commissioners for the year, 1857. It comes to us copiously illustrated with cuts and maps, showing the progress made in various works in charge of the Board, The expenditures for the year in construction amount to \$199,264.06. A statement of the works completed during the year comprises many details of interest to the visitor to the Park. but which have no space to describe. Many structures of rustic work, harmonizing well with the natural surroundings have been completed. The children's shelter is the most extensive example existing of this class of wood work. Experiments have been made for several years with cement, asphalt, concrete, and pavements of various sorts, none of which have proved entirely satisfactory, though some have developed valuable qualities. Several pieces of work were laid in the Park during last fall with a composition of tar gravel, and cement. The materials have been put down in several different methods on the Park in various localities, and with a variety of substructures, for the purpose of testing their merits. On the whole the Contral Park annual reports are the most comprehensive and neatly got up of any of the hundreds of reports, from corporations and associations, which are being constantly received at this office. The execution is exceedingly creditable to the compiler.

THE GALAXY. May. Sheldon & Co., 498 Broadway.

The new publishers have improved and enlarged this magazine, and it is now one of the handsomest and best of our numerous monthlies. Price \$: a year.