



Our weekly list of Patents and Designs contains every new Patent, Re-issue and Design emanating from the Department, and is prepared officially, expressly for the Scientific American, and for no other paper in the city, consequently other journals are obliged to wait the issue of the "Sci. Am." in order to profit by the expense to which we are subjected, and of course must be one week behind. Those publishers who copy from this department in our columns, will, in justice to us, give proper credit for the same.

LIST OF PATENT CLAIMS

ISSUED FROM THE UNITED STATES PATENT OFFICE,

For the week ending April 23, 1850.

To Wm. Abendroth, of Port Chester, N. Y., for improvement in cooking stoves.

I claim causing the heat and products of combustion to enter the flue over the oven on one side, and carrying the same across the top of the oven, down the other side thereof in a broad sheet, thence under the oven, and thence up in a broad flue to the smoke pipe, substantially as described.

To John Andrews, of Woburn, Mass., for improvement in Churns.

I claim the combination of the external chambers, their plungers and discharging passages, with the middle or air chamber; the whole being constructed, applied and used, substantially as specified.

And in combination with the above I claim the air entering passages, &c., applied and used as specified.

To A. M. Asay, of Philadelphia, Pa., for improvement in Dentists' Chairs.

I claim the manner in which I arrange the operating parts within the frame work and under the seat in combination with the seat so made as to move up and down within the frame work and appear like an entire seat, as herein set forth.

To D. H. Chamberlain, of Boston, Mass., (Assignor to T. J. Whittemore, of Cambridge, Mass., for improved method of attaching cylinder in revolving fire-arms.

I claim the improved mode of attaching the cylinder of barrels to the stock; viz, by means of the cylindrical tube, in combination with the flanch and stud or their equivalents, whereby I dispense with the usual spindle and hole for its reception in the centre of the cylinder of barrels, being thus enabled to enlarge the bore of the barrels in a cylinder of equal size.

To G. Fletcher, Sr., of Greensburgh, Ind., for improvement in machines for drilling stone.

What I claim is the combination of the lever, with the cranks and pitmen which operate it, for the purpose of rotating the drill periodically by impingement against the cogs of the pinion, at its greatest elevation, returning to position when the pinion is removed from its range, the whole arranged and operated substantially in the manner and for the purpose set forth.

To O. Edes, of Plymouth, Mass., for submerged rocker for separating ores.

What I claim is the combination of the rocking frame, the pans, the levers, and the bars, attached, and adjusted to the box, or to a platform or boat, in the manner and for the purpose substantially as herein described.

[The model of this invention worked admirably.]

To J. W. Hoffman, of the District of Southwark, Pa., for improvement in Safety Lamps.

I claim the sliding tubes, in combination with the screw, the said screw being furnished with the opening, through which to fill the lamp, substantially in the manner and for the purpose described.

To H. Jackson, of Evansville, Ind., for improvement in Double Cooking Stoves.

I claim the construction of a double cooking stove, having two compartments, and a smoke flue, passing round one compartment first and then around the other, in such manner that

one shall be heated in a much higher degree than the other, arranged and constructed substantially as herein described and for the purposes set forth.

[As stoves are not yet perfect, this one we are positive is a step towards that point. It is an excellent arrangement.]

To H. Lariorgan, of Boston, Mass., for improved arch-truss for bridges.

What I claim is the so combining or arranging them with respect to each other, and with the radial suspension rods, and on the cord or beam to which they are applied, that they and their suspension rods, may overlap one another, and have the feet or parts of each which rest on the cord, upheld by the crown, and suspension rods of the central part of an adjacent arch, all substantially as above specified.

To W. R. Nichols & B. C. Boyes, of Philadelphia, Pa., for improvement in coal-stirrers for furnaces.

What I claim is, first, the rake frame having numerous vertically moving fingers constructed and operating to stir and clean the fire only by a vertical movement, said fingers being distributed beneath the grate, substantially in the manner and for the purpose described.

Second, we claim in combination with the passages round the rim of the grate admitting warm air above the fire, the vertically moving rake-teeth which open passages for the free escape of combustible gases to be burned by said warm air, thereby maintaining a copious volume of flame, all around the interior of the fire-box, as set forth.

To S. R. Parkhurst, of New York, N. Y., for improvement in Cotton Gins.

What I claim is, first, the making card cylinders with gutta Percha, or other similar substance, filled in among the teeth, to form a regular surface, and stiffen the teeth, whether such cylinders, so fitted or used for this or any other purpose, for which they are available.

Second, I claim the application of one or more card cylinders with gutta percha or other similar substance, between the teeth, in connection with an equal number of smooth cylinders, to card cotton from the seed, substantially as described.

Third, I claim the application of the wire gauze drum and roller beneath; first, for the purpose of allowing the blast to drive the dust and chaff from the cotton; and second, for the purpose of leading the cleaned cotton out in a sheet, or batt, whether this roller and drum be applied to act with the card, or with the common saw gin.

To J. Ruck, of New York, N. Y., for improvement in Pianofortes.

I claim the manner of constructing the tuning block substantially as herein described, of the arched slab and the back piece, with the wedge or piece, and the diagonal bolts or keys, whereby it is made capable of withstanding the great strain of the strings.

And I also claim the metal plate, carrying the ribs projecting from and forming part of it, the plate being attached to the upper surface of the tuning block, each of the strings of the instrument passing over and resting on a rib, and passing through a hole in the rib immediately behind, whereby the strings obtain a solid bearing on the tuning block, which will make them produce a full round, clear tone.

[This is the second patent on pianos Mr. Ruck has taken out in a few weeks. His improved pianos are of no ordinary character.]

To N. Sawyer, of Baltimore, Md., for improvement in Brick Presses.

What I claim is, first, the combination of the grated disk and hopper, constructed and arranged substantially in the manner and for the purpose described, and in combination with the revolving moulds.

Secondly, I do not claim the mould as herein described, or the manner of holding the brick firmly while being cut off, these claims having already been granted to me in my Patent of September 27th, 1844; but what I claim is the arrangement of the mould (whether conical or otherwise, as before patented,) in a revolving cylinder, with pistons revolving with them, and working under a stationary cam, as herein described, in combination with stationary cutters, or cutters revolving on their

own axes, working in a groove near the lower ends of the moulds, in the manner and for the purpose herein specified.

Thirdly, I claim the apparatus for trimming the bricks, consisting of a stationary cutter and a piece in front thereof, to press up against the brick as the clay is cut.

Lastly, I claim the combination of adjustable headed pistons, with stationary cam, as herein full specified.

To B. M. Smith, of Ridgeway, N. Y., for improved arrangement of propellers and chimneys for canal boats.

What I claim is the employment in combination of two propellers arranged in a recess at the stern of a boat, each being on a separate shaft, one above the other, and one of the propellers being placed back of the other, substantially as herein described, whereby a greater amount of paddle surface can be obtained within a case and with a given width of stern than by any other known plan.

And I also claim in combination with the propellers arranged with a part of one of them above the water line and enclosed in the recess at the stern of the boat, substantially as herein specified, the employment of a fan for exhausting the products of the combustion into the recess in which the propellers work, substantially in the manner and for the purpose specified.

To H. G. Thompson, of New York, N. Y., for lathe for turning a peculiar species of curve.

What I claim is the method substantially as herein set forth, of turning the periphery of steam wheels, or other articles, with regularly curved projections and depressions from a true circle, by combining with the mandrel of a lathe, or (what is equivalent thereto,) the shaft of the steam wheel, a cutter, which, in addition to the usual longitudinal motion parallel with the axis receivers, a reciprocating motion towards and from the axis by means of a cog-wheel, pinion and crank, or their equivalent, as herein described.

To D. Ulam, of Mount Pleasant, Pa., for improvement in Smut Machines.

What I claim is the peculiar construction of the rubber pieces, substantially as described and represented, whereby all parts of their surfaces may be successively appropriated to the rubbing action, each plate being susceptible of four changes before it becomes necessary to replace it by a fresh rubber.

To S. Whitman, of New Albany, Ind., for improvement in Brick Presses.

What I claim is the clearers as used in connection with the two plungers, for the purpose of delivering the brick and preventing the plunger from becoming foul at their passing ends and the clearer itself being kept clean and polished by the action of the plunger upon its lower surface.

To E. F. Whiton, of West Stafford, Conn., for improvement in instruments for measuring cloth.

I claim the manner herein described of measuring cloth or other fabrics by causing the material to pass over and give rotary motion to the roller, carrying on its axis the endless screw gear, gearing into the teeth of, and giving motion to, the traveller wheel, carrying an indicator, pointing out the distance travelled by the periphery of the roller, on the graduated adjustable index plate, or by any other mechanical combination substantially the same.

[This measuring apparatus is also a registering machine.]

To D. Wolf, of North Lebanon, for improvement in adjustable shares of corn plows.

What I claim is increasing or diminishing the angle of the plows with the central line of draft, by shifting the screws to the holes in the plows, and the screws to other holes in the beams, without changing the position of the shanks and braces, by which more or less earth may be thrown toward the row of plants under culture, as described.

To Peter Yates, of Milwaukee, Wis., for improvements in changing a reciprocating motion into a rotary.

Having thus described the construction, and operation of the parts employed, and the effects they produce, or may be made to produce. I do not herein claim to have invented any one of the parts used, irrespective of the manner, in which I have described and shown them to

be employed for specific purposes, nor do I claim herein, any of the parts claimed in my patent of the twenty-fifth of April, 1843.

But I claim as new, and of my own invention the application of the levers, catch blocks, with the bevels and springs, or their equivalents to interlock and unlock with the crank arms.

And I claim, also, making the governing bar adjustable in combination with the levers, in such a manner as to give either a direct or reversed motion to the pulleys; and I claim the above applications severally, and in combination, in the whole and in the parts, the apparatus being constructed and operated in the manner and for the purpose herein described and represented.

[Now, since "Pulley," has made so much talk about his wonderful invention, and secured a patent for it, we hope he will "speak in deeds," for he has used steam enough in talking about it prospectively, to drive a locomotive at the rate of two hundred miles an hour. We predict, before a fair trial is made, that his springs "to interlock and unlock," will prove with pulleys and "crank-arms," (ah! crank arms,) a miserable substitute for the simple, incomparable crank.]

More about the Exhibition of the Industry of all Nations.

The commissioners for the exhibition of the industry of all nations, to be held in London, have fixed the time for opening, as we learn from an official communication, on the 1st of May, 1851. All articles intended for exhibition must be sent to the commissioners before the 1st of March 1851, as after this time none will be received. Attention will be given to the reception of articles after the 1st of January, 1851. By grant of Her Majesty, the exhibition will be held on the south side of Hyde Park, where a building is to be erected that will cover from sixteen to twenty acres.

"The productions of all nations will be exhibited together, under one general classification.

The building will be provided free from rent, and fire-proof.

Exhibitors will deliver their objects at their own charge and risk at the building in the Park, but no charges will be made while they remain there.

Colonial and foreign productions will be admitted duty free for the exhibition, but not for internal consumption. Such articles will be considered as bonded goods, and the Commissioners of the Exhibition will make suitable arrangements for their reception."

The commissioners desire the extension of local organizations in all districts from which it is proposed to send articles, and it is their wish that these committees will, as early as possible, procure an inventory or specification of articles proposed to be exhibited from their districts, and of the space required for their exhibition, that the Commissioners may determine as soon as possible the proportions of the building.

"Subscriptions should be paid to the treasurers of the local committees, and by them transferred to the general fund at the Bank of England, in the names of Messrs. A. K. Barclay, W. Cotton. Sir J. W. Lubbock, Bart.; S. M. Peto, Esq., M. P., and Baron L. de Rothschild, M. P.

Any surplus left after giving every facility to the exhibitors, and increasing the privileges of the public as spectators, will be applied to purposes strictly connected with the ends of the Exhibition, or for the establishment of future similar exhibitions.

The Commissioners are in communication with the Foreign Office in Downing-st. as to the means of informing foreign governments of the arrangements in progress.

The Commissioners will afford every information in their power on any point respecting which local committees may address inquiries to the secretaries of the commission.

(Signed) J. SCOTT RUSSELL.

STAFFORD H. NORTHCOTE.

At the New Place, Westminster, Feb. 21, 1850."

Temperance includes all the virtues and excludes all the vices.