



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 subject, 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 30, 1850.

To C. Austin, of Concord, N. H., for improvement in Reed Musical instruments.

I claim to make the reed opening, directly through the wooden sounding board, in combination with the applying of the reed directly to the same, and fastening it to the sounding board; instead of using any metallic frame for the opening and reed, as has been the customary method of making and constructing such instruments; my said invention, by dispensing with the said metal frame, not only producing a remarkable improvement in the tone, but a great saving in the cost of construction of an instrument.

To A. H. Brown, of Albany, N. Y., for coupling for pipes and hose.

I claim the construction of couplings for hose or tubing, by forming one part thereof into a hollow cylindrical cup or box, having wedge shaped flanges of metal inside and next to the edge thereof and by forming the other part of the coupling, of a flange equal in diameter to the first described coupling, having its face edge ground with the edge of the first coupling to make a tight joint, with a cylindrical ring (whose bore is equal to that of the tubes to be coupled) projecting from said flange, concentric with it, and diameter just large enough to pass between the flanges of the cup or box, and to reach just to the bottom of the cup, whose bottom face, with the outer face of said ring are ground together to form a tight joint. Also said ring having on its periphery at the outer edge, wedge shaped flanges similar in form and angle to the flanges of the cup or box, and so arranged as to pass between ground surfaces of the couplings together firmly.

To C. Broyles, of Greene Co., Tenn., for improvement in apparatus for drawing water.

I claim the plan herein described, of bringing water upon a level, over a hill, or in any situation where the fountain is not higher than where the water is wanted for use, viz, I claim the combination of the weight and its cord, pulley and ring, the whole being with the cord by which the bucket is drawn and the hook or catch upon the carriage, the whole being arranged substantially as described, for the purpose of drawing the empty bucket from the place of discharge over the highest point of the way to the spring.

To S. E. Crocker, of Boston, Mass., for improvement in machines for holding and dressing slates.

I claim the endless series of clamp carriages substantially as herein set forth, to hold and carry the slates beneath the cutters.

To M. R. Dudley, of New Orleans, La., for improvement in Grain dryers.

I claim the construction and arrangement of the apparatus as herein described, by which a stratum of air is forced into a case inclosing the grain cylinder where it protects the grain from the direct action of the heat from the fire and is their heated and conveyed through the grain so as to carry off the moisture therefrom substantially in the manner and for the purpose set forth.

To H. Elliot, of Manchester, N. H., for improvement in gearing for regulating speed.

I claim the employment of the wheel or pulley, in combination with the cone and governing shaft, substantially in the manner and for the purpose herein set forth.

To J. M. Keep, of Bath Me., for improvement in Gages for spreading Plasters.

I claim the combination of the adjustable expanding and contracting frame with the adjustable, expanding and contracting bed, the several portions of the combination being arranged and constructed substantially as herein set forth.

To J. Knowles, of Buffalo, N. Y., for improvement in let-off motion of looms.

I claim the arrangement of the yielding weight and the stationary whip rolls in connection with the let-off motion as herein set forth, whereby the texture of the cloth is rendered more uniform than has been heretofore done while it can be varied at will.

To E. H. & S. E. Parsons, of Wilkes Barre, Pa., for improvement in hanging saws in saw mills.

We claim the method of hanging a mill-saw, from guides in advance of its front edge, which sustains the whole pressure caused by the advancement of the wood on the carriage against the saw teeth, the plate of the saw swinging on the advanced guides as pivots, so that when cutting it is kept running in a plane passing through the guides in the direction in which it blows.

To S. Peck, of New Haven, Conn., for improvement in holding daguerreotype plates.

I claim the constructing of a movable holder for securing daguerreotype plates by pressure from within outwards while the plates are being polished, burnished, buffed, or cleaned.

I also claim as new the construction or arrangement of a holder composed of two parts with springs between the parts pressing them from within outwards against the bent edges or corners of the daguerreotype plate, and secured from contraction by a button or wedge, substantially as the drawings. And in combination with such a holder, I claim the bending of the edges or corners of the plate so as to secure the same to this holder.

I also claim the adaptation of a daguerreotype plate with its edges or corners bent as shown in the drawings to a movable holder constructed substantially as above described.

To B. Rowe, of Albany, N. Y., for improvement in apparatus for splitting and stretching leather.

I claim the construction of a machine performing the business of rolling, splitting and stretching leather, at one operation as set forth, viz., the following combination of machinery—one roller, driven by the motive power, having another roller, moving about it, between which two rollers, the leather is to be compressed, the upper roller running free upon its own axis, which is fixed in a vibratory frame, in order that said upper roller may be adjusted thereby to any variable or determinate pressure upon the leather, by proper power applied to said frame. A second roller placed a short distance in front of and parallel with the first named one, running free on its own axis. A smaller roller, (placed in a second vibrating frame, similar to and adjustable like the first mentioned frame) running above the last mentioned roller, to perform the functions of compressing the leather and holding it firmly to receive the cut of the knife. A knife supported by strong springs and placed just in front of the last mentioned pair of rollers, so as to act upon the leather directly as it leaves the rollers.

A movable frame to carry the leather to be operated on, moved by a gearing connecting it with the first roller, and giving it a certain proportional rate of movement compared with that of the roller, by which the quantity of stretch to be imparted to the leather can be regulated. An apparatus for guaging the knife to cut the leather to a given thickness, consisting of a pair of eccentrics, on the ends of a shaft running parallel with the knife, and operating upon each end of it equally as the said shaft is turned round, with an index plate and set-lever, to regulate and fix the same during the operation of the machine,

To A. N. Severance, of Cherry Valley, O., for improvement in vats or press-boxes for cheese.

I claim producing cheese vats with a movable joint which is operated by a crank or lever to enlarge and diminish the size of the vat substantially in the manner and for the purpose herein set forth.

To W. H. Trissler & E. Brecht, of Fairview, Pa., for improvement in roasting coffee.

We claim the application of steam or vapor

to grains of coffee, just previous to subjecting them to the action of a dry roasting heat, with in an apparatus constructed and operated substantially in the manner herein set forth.

To W. Van Anden, of Poughkeepsie, N. Y., for machine for making wrought iron railroad chairs.

What I claim is 1st, the double or parting die, substantially as described, parting by means of a joint at the top, or otherwise, for the purpose above set forth.

2nd. The vertical shears and benders, working in connection with the double die, in such manner as to cut and form the lips of a chair at one operation, substantially as described.

3rd. I also claim the combination of dies, shears, punches, benders, and cleaners, arranged and operated in the manner and for the purpose above set forth, or any similar arrangement wherein the combination is essentially the same.

[This invention is to be secured in England also. It is an important one.]

To B. M. Van Der Veer, of Clyde, N. Y., for improvement in board and log rules.

I claim the combination of the log table and board rule, in the way and manner, and in the form described and illustrated herein. I do not claim the log table or the board rule, *per se*, as my invention.

To C. Warner, of Louisville, Ky., for pipe coupling.

I claim fastening together the abutting ends of two pipes by forcing a sleeve of some hard substance over a belt of a softer substance which envelopes the seam and is thus compressed between the sleeves and the pipes.

To F. Wright, of Indianapolis, Ind., for improvement in the rubbers of smut machines.

I claim in combination with the feeding and rubbing cylinder, constructed and operated substantially in the manner and for the purpose described.

To J. Wurfflein, of Philadelphia, Pa., for method of preventing accidental discharge in the Prussian Gun.

I claim the guard, to prevent the discharge of the arm when all the parts are not in proper position, constructed, combined, and arranged with the arm, and operated substantially in the manner and for the purpose described.

RE-ISSUES.

To J. L. Mott, of New York, N. Y., for improvement in cooking stoves. Patented August 22, 1848. Re-issued April 30, 1850.

What I claim is, first, making the back of the oven of a series of vertical flue tubes in the bottom, substantially as herein described, to equalize the heat of the oven.

Second, I claim lining the inside surface of the bottom plate of the stove, with some refractory earthly cement or polished substance, as described, in combination with the series of flue tubes constituting the back and bottom of the oven, for the purpose and in the manner substantially as described.

Third, I claim making the front part of the top plate separate from and attached to the top plate by bolts or otherwise, substantially as described, when combined with the sunken connecting piece, whereby the cracking consequent upon over heating and unequal expansion and contraction of that part which is exposed to a high temperature, is prevented.

Fourth, I claim the combination of a fire-box made with a grate or openings for draught in the bottom thereof, substantially as described, with the coal feeder having an aperture or apertures for draught, between it and the upper edge of the fire pot, substantially in the manner and for the purpose above described.

I am aware that a series of hook-formed wipers playing between the grate bars and arranged on a shaft have been heretofore patented for cleaning the grates of an iron furnace but these can only be turned in one direction by reason of their hook form, and on this account are not practically useful. I do not therefore claim broadly the use of cam formed wipers unless they are so formed that they can be operated in opposite directions, but I do finally claim in combination with a grate, a series of eccentric plates or cam formed plates of equivalent form arranged on a shaft so located relatively to the grate bars as by the vibration of the shaft in either direction, the said plates shall play between the grate bars and separate and clear out cinder, slay and

other hard substances, substantially as herein described.

DESIGNS.

To P. A. Palmer, of Le Roy, N. Y., for design for Stoves.

Reform of the Patent Laws.

Mr. Turney, from the Committee of Patents, in the House of Representatives, has brought in a Bill for a Reform of the Patents Laws, based upon the one adopted by the Baltimore Convention—leaving out, however, some repulsive features which we pointed out. The following are the heads of the Bill:

1. That a record of all applications for a re-issue of patents, or an addition to patents, and all disclaimers, and all the correspondence on the same, shall be kept in the Patent Office.
2. That in case of the rejection of an application for a re-issue, or an additional patent, the Commissioner shall record his reasons, and refer to the records upon which they are founded.
3. That certified copies of such reasons and records against any re-issue, &c., shall be furnished on demand, on payment of the legal fees for the same.
4. Provides for a fair hearing of any person opposed to a re-issue or additional patent, upon an invention already patented.
5. Limits re-issue, &c., to specifications and models, and declares they shall not have a retrospective operation.
6. Provides by writ of *scire facias*, for a trial by law of contested cases.
7. And for an appeal to the Supreme Court.
8. Requires three weeks advertising in two of the Washington daily papers, sixty days before the meeting of Congress, of all intentions to apply for a re-issue, extension of, or addition to any existing patent.
9. That all extensions, re-issues or additions, secured by special legislation, by fraud or circumvention, by misrepresenting to, or concealing facts from Congress, should be null and void, and fraudulent, and of no effect.

[It is not possible, we think, that this Bill will be acted on this Session, and until we know something more about the matter, we may not take up room in our columns to discuss its features. A Report will also be made by the Committee of the Senate, and as the Committee has the Bill before them, presented last Session by some true friend of the inventors, and the one by the Baltimore Convention this Session, we cannot say what may be done in the matter, but we will endeavor to keep our friends informed on the subject.

We have before us, (through the favor of a friendly inventor) the Bill presented by some inventors, last Session of Congress, and the one presented at the present Session by the Committee of the Baltimore Convention (for which we are much obliged to Geo. Gifford, Esq.), and we will give them particular attention and compare them with the Reports of the Committees, before final action is taken on them. It strikes us, that the features in the above Bill, have mighty little to say in reference to a *full protection* of inventors in their rights. But we shall see more about the matter bye and bye. We deeply lament the death of Mr. Calhoun, as he was a true friend of inventors, and always stood ready to defend their rights and to act for their just remuneration. We hope that Senator Webster will give the Bill, which has for its object the Reform of the Patent Laws, his attention, and pry into its merits. No Senator understands the principles of machinery and patents, as well as he does.

Texas Crops.

We learn from private correspondence, that the spring season in Texas has been cold and very unfavorable for vegetation, cotton has been planted and killed, and in consequence of the exceeding scarcity of seed, it is not expected that full crops will be planted. Previous to a cold storm which occurred on the 27th of March, the corn was up and looked finely.

Roche, the French aeronaut, recently made an ascent at Bordeaux, when his balloon hit a chimney, upset the car, and threw him into the street, where he was picked up with one broken arm and two broken legs.