...... THURSDAY AND CONTRACTOR

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Reported Officially for the Scientific American LIST OF PATENT CLAIMS

Issued from the United States Patent Office FOR THE WEEK ENDING MAY 18, 1852.

CARDING-By Jonas Holmes & Ephraim French, of Lee, Mass: We claim traversing the doffer or dof-fers of a card, or setting the teeth upon them, ser-pentine or zig zag, or in such other curres, points, or angles as may suit the taste or fancy of the ope-rator; also to traverse them, when so set, if desira-ble, so as to take the wool or other materials, from such parts of the main or other artifer of the acard bie, so as to take the wool or other materials, from such parts of the main or other cylinder of the card, and deliver it to the condensing rollers or other ap-paratus, so as to make roving variegated, either in colors or materials, or both, when said colors or ma-terials are fed upon the card, substantially as de-casibed

STOVES-By G. W. Kennison, of Newburyport fass.: My invention consists in a combination o Mass the following particulars or elements, viz. first, a close drum or chamber, made with one or more air inlets, and their closing slides, or doors, in the lower part, and a fuel opening and door at or near its up-

part, and a fuel opening and door at or near its up-per part. Second, a fire pot or chamber of combustion, pla-ced within the said drum, and having a grate in its lower part, and a smoke discharge pipe leading out of it at or near its apper part. Third, an air space under the fire-pot grate. Fourth, a space between the external sides of the fire pot and the internal sides of the drum, and made to freely communicate with the space under the grate.

The second secon ly as described.

ly as described. SHIP'S BLOCK—By Chas. H. Platt. of New York City: I do not claim the metal plate for connecting the checks, for that has been previously employed; but I claim the employment or use of the metal bands or hoops, said hoops or bands encompassing the cheeks and fitting in grooves in the peripheries of the cheeks, the hoops or bands having eyes formed in them at the upper end of the block through which the bolt passes, securing the cheeks the proper dis-tance apart at the upper end of the block, as set forth.

tance apart at the upper end of the block, as set forth. UMBBELLAS—By J. V. Tibbets, of New York City : I do not lay special claim to the device consisting of a female screw slide working over or on a screw rod, and operating together, for opening and closing the frame of the umbrella, as the devices to effect this may be varied; but I claim distending or open-ing the embrella by the rods which have heretofore simply served as studs to the covering, and been per-manently attached thereto, the covering being se-cured to the apex of the central rod, and the lower ends of the distending rods; and this I claim, whe-ther the inner ends of the distending rods be made to descend or the central rod to ascend with the apex of the covering, in distending the cover to the frame, viz., by means of swivels attached to the cover and screwed on to the ends of the rods, as de-scribed.

scribed

I also claim the application of the springs of the rods to the slide, operating in the manner and for the purpose described.

IRON SAFES-By Wm Alford & J. D. Spear, of the District of Southwark, Pa.: We claim the applica-tion of chalk, or whiting, which has been subjected to the action of acids, and has been partially depri-yed of the carbonic acid, the material which we use being in fact the works or residual matter left from ved of the action to acid, the material which we use being, in fact, the waste, or residual matter leftfrom the manufacture of what is called mineral water, af-ter chalk or whiting has been subjected to the ac-tion of acids for the purpose of expelling a portion of its carbonic acid, this residual matter consisting, substantially, of the substances mamed in the analy-sis before referred to in the construction of double iron check or safes in the manner described, or in iron chests or safes, in the manner described. or in any other manner substantially the same.

SAW-SETS---By Asahel G. Bachelder, of Lowell, Mass.: I claim the dog or set, so constructed and ar-ranged as to traverse or slide upon a rod or bar in a direction parallel to the toothed edge of the saw, for the purpose of setting the same, substantially as described.

STRAINING SAWS IN SAW MILLS-By Edward Booth, of Philadelphia, Penn.: I claim the em-ployment of the lever, or its equivalent, the spring connected to the lever by a rod or link, which is se-cured or attached to the lever near its fulcrum, both operating together and in combination with a recip-rocating saw connected to the lever, and the whole being constructed, arranged, and operating substanbeing constructed, arranged, and operating substan-tially as described.

tially as described. CARTRIDGES FOR BREECH-LOADING GUNS-By Wm W.Marston & F. Goodell, of New York City: We claim the application of the leather breech-pieve to cartridges used with breech-loading guns, such leather breech-pieve serving the purposes of a foundation for it, own cartridge, a protection, to the breech-pin, a wad for the next cartridge, in succes-sion, and of a swab to clean out the seilage caused in the barrel by the antecedent explosion, producing a safe cartridge for pieces that how at the back of the breech, and in which explosion is also caused in the line of the axis of the barrel, substantially as de-scribed, but without regard to the sizes of armsused with the cartridges, and irrespective of the machi-nery or mechanical means, by which the cartridge itself is made. itself is made.

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rods extending from the shaft, the lower ends of which rods support the fulcrum on which the beaters or dashers more (not confining myself to the number orform of the dashers), the said dashers being ope-rated by the rods and bell cranks, substantially as set forth set forth.

OvENS-By T. N. Reid, of Baltimore, Md.: I claim the construction of said oven, with recesses on the side, or sides, for fuel, substantially as set forth, and in combination therewith, the cooking chambers, as described.

HAY RAKES-By C. R. Soule, of Fairfield, Vt. : I claim so constructing revolving spring tooth rakes, as to bring the centre of revolution nearer the low-er ends of the teeth, than can be done by having them revolve on the head, around which the teeth are coiled (which is the usual mode), by which means I cause them to revolve much outlor and in giving I cause them to revolve much quicker, and in giving a much shorter distance than otherwise can be done, while, at the same time, they revolve much easier which the application and more readily, in consequence of having the second head, coil, &c., to balance, or nearly so, the re- fic American Cffice.]

maining heft of the teeth, &c., which will be on the other side of the centre of revolution, or nearly so, thereby giving the required length and elasticity to the teeth, with a quick and easy revolution, which I accomplish as set forth, or by means analogous thereto.

CEMENTS-By B. S. Welch, of Brooklyn. N. Y : I claim the primary cement, as described, formed of the hydrate of lime in a finely subdivided state, and resin in a fuely subdivided state, mixed together with water in a cold state, for the purpose set forth.

DESIGNS. COOKING STOVES-By T. A. Herrick, of Boston, Mass. (assignor to L. M. Leonard, of Tauuton, Mass.) COOK STOVE-By N. S. Vedder & Wm. L. Sander-son of Troy, N. Y., (assignor to Peter J. Clute, of Schenectady, N. Y.)

[Just one half of all the Patents in the above list (exclusive of the designs on stoves) were cases on which the applications were prepared at the Scienti-

LINTON'S IMPROVEMENT IN BRICK KILNS.



This invention is an improvement in the causing a free, steady, and unimpeded heat construction of Brick Kilns for burning coal equalized throughout the body of the kiln, or hard wood, and was patented by the in- by which fuel is economized and the time ventor, William Linton, of Baltimore, Md., required for burning the kiln shortened.

on the 20th of last January, 1852. The im-Fig. 1 is a sectional view of the air champrovement consists in the form of the air ber, as situated a little below and between chambers, and the bottom of the fire beds, each of the fire beds. Fig. 2 is a general and in the mode of introducing the air into view of the kiln, with a portion of the wall the kiln for igniting and burning the fuel, and removed to show the fire beds. Fig. 3 is a



sectional view of the air chamber, showing, air to every portion of the fire beds, for the the openings or recesses.

the air up into the fire beds, b b, through the essential where coal is the fuel used, or where conductors, c c c, (as at fig. 3, h h h, and d d d) wood is the fuel they can be covered with place on the third day of August, 1852.

purpose of equally igniting the fuel thereon. The construction is as follows :-- An arch, The ashes are discharged into the air chamfig. 1, a a a, is formed a little below and be- bers, and the fire beds are kept free. The tween each of the fire beds, b b, in which bottom of the fire bed may be covered with openings, c c c, are made that serve to admit | an iron grating, as at fig. 2, c c c, and this is

made therein, so as to cause a free current of brick, as at fig. 2, d d d. a a a are vent Fig. 3.

A much better method of preserving milk is that first pointed out by M. Dirchoff, the Russian chemist, namely, to solidify it by driving off the aqueous portion by a gentle heat. Specimens of consolidated milk were shown in the Great Exhibition; and it was stated that, after being dissolved in boiling water, and re-produced in the form of milk, the solution will keep pure for four or five days. As milk contains 873 parts water in every 1,000, it follows that 1,000 parts of milk will yield by evaporation only 127 parts.

Thunder of Waterfalls.

Dr. Tyndall, in the "Philosophical Magazine," makes the following observations on the production of bubbles in connection with the origin of the sound of agitated water :---When the smoke is projected from the lips of a tobacco-smoker, a little explosion usually accompanies the puff; but the nature of this is in a great measure dependent on the state of the lips at the time whether they be dry or moist. The sound appears to be chietly due to the sudden bursting of the film which connects both lips. If an inflated bladder be jumped upon, it will emit an explosion as loud as a pistol-shot. Sound, to some extent always accompanies the sudden liberation of compressed air. Anithis tact is also exhibited in the deportment of a jet. If the surface of the fluid on which it falls intersects its limpid portion, the jet enters silently, and no bubbles, as before remarked, are produced. The moment, however, after the bubbles make their appearance, an audable rattle also commences, which becomes louder and louder as the mass of the jet increases. The very nature of the sound pronounces its origin to be the bursting of the bubbles; and to the same cause the rippling of streams and the sound of breakers appear to be almost exclusively due. I have examined a stream or two, and in all cases where a ripple made itself heard I have discovered bubbles. The impact of water against water is a comparatively subordinate cause, and could never of itself occasion the murmur of a brook, or the musical roar of the ocean. It is the same as regards water-falls. Were Niagara continuous and without lateral vibration, it wold be as silent as a cataract of ice. It is possible, I believe, to get behind the descending water at one place; and if the attention of travellers were directed to the subject, the mass might perhaps be seen through. For in all probability it also has its "contracted sections ;" after passing which it is broken into detached masses, which, plunging successively upon the air-bladders formed by their precursors, suddenly liberate their contents, and thus create the thunder of the waterfall.

Extension of a Patent.

On the petition of Phineas Bennet, of New York, N. Y., praying for the extension of a patent granted to him on the third day of August, 1838, for an improvement in apparatus for generating steam, for seven years from the expiration of said patent, which takes

It is ordered that the said petition be heard at the Patent Office on Monday the 26th of July, 1852 at 12 o'clock m.; and all persons are notified to appear and show cause, if any they have, why said petition ought not to be granted.

Persons opposing the extension are required to file in the Patent Office their objections, specifically set forth in writing, at least twenty days before the day of hearing; all testimony filed by either party to be used at the said nearing, must be taken and transmitted in accordance with the rules of the office, which will be furnished on application.

Swings-By Edward Maynard, of New York City: I claim the combination of the wire frames construc-ted as set forth, with the net work and swing cords.

COTTON BATTING-By E. P. Rider, of Brooklyn, Y.:-I claim uniting two or more layers of cotton batting together by means of any glazing material, thereby producing a new article of manufacture, which I term cotton felt, to be used for upholstery and all other purposes to which it is applicable, as set forth.

[This is an important invention for upholsterers and we predict that, within a few years, cotton will be the principal article used for nearly all kinds of upholstering purposes.]

CHURNS-By Clarkson Rhodes, of Morrow Ohio: I claim hanging the series of beaters or dashers by

openings leading to the air chambers. By the , manner :--Fresh milk is reduced by boiling to above improvement the inventor alleges he is ore-half, and beaten up with yolk of eggs, in enabled to burn 7,000 bricks with one ton of the proportion of 8 eggs to every 102 quarts bituminous coal, and 4,000 bricks with one cord of oak or other wood.

For further information apply to the patentee, carner of Lexington and Pine streets, Baltimore, Md.

Preservation of Milk.

Various plans have been brought forward from time to time, for keeping milk in a fit state, at least for using with coffee and tea.

THOS. EWBANK, Com. of Patents. Washington, 1852.

of milk. The whole is then placed on the Foucault Illustrated. fire for halfan hour, and skimmed frequently; The Springfield Republican says, that Mr. it is next strained and heated in a water-bath Geo. M. Dimmock, a workman in the U.S. Armory, in that city, has invented an apparafor two hours. It is stated that this milk will keep good tor two years, and if churned would tus to illustrate the pendulum experiment of afford good butter. Cream may be preserved M. Foucault, demonstrating the rotation of the by boiling five measures down to four: then, earth upon its axis. This apparatus is an artiafter cooling and skimming, it is put into a ficial globe, with an adaptation of a pendulum, bottle, corked down, luted, and kept in the which is put in vibratory motion over a dial, boiling heat of a water-bath for half an hour. divided into degrees, at any required latitude Milk has been preserved in the following This, it is said, will keep two years. of the globe.