Scientific American.



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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 SEPTEMBER 25, 1853.

LOOMS FOR WEAVING HAIR CLOTH-By Halvor Halver on, of Hartford, Conn.: I claim the combination of the son, of trough sets of son, of Hartlord, Conn.: I claim the combination of the trough or troughs, one or two depressers, one or two sets of pincers applied to the shuttle and mechanism, for opening and closing the pincers, the whole being ap-plied to one or both ends of the lay, and to the shuttle, and made to operate together, for the purpose of carry-ing hair or hairs or like matters, into the shed of warps, as specified.

as specified, and so the matches into the shed of warps, as specified oc claim the arrangement of each or both troughs, with respect to the depresser or depressers through, and the shuttle bares and the lay, the trough in such arrangement being made to extend from the depresser towards the middle of the lay, substan-tially, as.specified.

SASH FASTENER--By Henry Hochstrasser, of Philadel-phia, Pa.: I claim the self-acting catch, made and operating substantialiy as described.

COORING RANGES-By Nicholas Mason, of Roxbury, COOKING KANGES-BY Nicholas Mason, of Hoxbury, Mass. I am aware that hot air chambers have been ap-plied to ranges for the purpose of heating meats, dishes, cc. and also, that hot water spaces have been applied to the sides of the grates instead of at the back. I, therefore, lay no claim to such devices. But I claim the employment of two ovens in combi-nation with the peculiar arrangement of the flues around their top, bottom, back, and sides, by which I am enabled to heat five sides of either one or both of them at a time, as set forth.

MANUFACTURE OF SHEET IRON-BY Henry McCarty, of Pittsburgh, Pa.: I do not claim the use of rollers gener-ally, but I claim inparting to the surface of sheet iron, the peculiar mottled appearance of Russia sheet iron, by passing the sheet between a pair of planished or hammer dressed rollers, in the manner set forth.

by prosing the set of the paint of prime of prime of the set for the manner set for the control of the set of

poker

climate, are treated with a curing heat, after on the same night, in the month of September, England, M y 20, 1805: We claim the combining steam or superheated or surcharged steam for actuating en-gines, when genera ted, the elasticity increased and operated as set forth. tent: the assignee to file with his application evaporation. That is, they are heated for a the assignment duly proved, and an affidavit | last year, when a bright meteor was seen in Texshort period above the temperature, at which PREPART O PARTENT OIL-By Wm. Brown, of Glas-gow, Scotland: I claim first, the use of superheated steam as indicated, for the purpose indicated. Second, I claim the under of separating and purifying eupione lubricating oil and parafine, obtained by pre-vious process. setting forth the date of the patent abroad, and as, he saw it at North Enfield, N. H. It was as the moisture is evaporated, and for the very large in appearance as the full moon, and for a that the patented invention has not been in compurpose of preserving them from the evils spoken moment made night appear like day. It swept mon use here, and that he is assignee for a good eupione 10.... vious process. of by our correspondent, namely worms. across the heavens from west to east with great consideration. METHOD OF VENEERING-By Caleb B. Burnap, (assignor to Lucius F. Robinson.) of Hartford, Conn.: I claim the method of pressing veneers on to the surface to which they are to be glued or comented by means of a fluid hot or cold, acting on an interposed flexible substance, such as an Indian rubber cloth or its equivalent, which will adapt itself to the s rface, substantially as described. velocity. In less than three seconds from the SEC. 8. Patents are assignable and fractional By the latest news from Europe it would aptime it was first seen by him, it burst without parts thereof, when granted here; and assignpear that in many places of France and Italy, the least noise into splendid streams of many ments are to be recorded in the Provincial Sethe people were suffering from a want of food colors, and disappeared. He has been often will adapt itself to the s rface, substantially as described. CAR WHEELS-By Daniel P. Fales, of West Poultney, Vt.: I am aware that car wheels composed of two side plates of different shape, cast in one plece with the hub-and rim in which the rear plate is made to combine the inner end of the hub with the face plate, and with alter-nate portions of the inner edge of the rim, have been made by Bristol and Jackson, and, therefore, I do not claim to be the inventor of this description of car wheels. But I claim by my improved car wheel, composed of the face plate E, which, curves first inwards and them outwards, and expands into the rim, and the rear plate. cretary's office, within three months of execuconsequent on a failure of crops. importuned to send us an account of this phenotion, being first duly proved on oath of subscrimenon, but has not done so until now. It is in-Niagara river, at the Suspension Bridge, bebing witness. deed a remarkable thing that he should see this SEC. 9. Persons pirating patents, to pay three low the Falls, is 125 feet deep. meteor at the same time it was seen in Texas, as times the amount of damage, which patentee or described in the Scientific American, page 18 The Fair of the American Institute, opened his representatives may have sustained, recover-21 this week at Castle Garden. able in the Supreme Court. last volume. 192=

B, which by the series of curvs combines the inner end of the hub with the face plate, and with alternate por-tions of the inner edge of the rim, substantially as set forth.

RAIL ROAD SWITCHES-BY James M. Dick, of Buffalo, N. Y.: I do not claim the levers, springs, bolts, or con-necting rods. Neither do I claim of itself the employ-ment of a sliding bar connected to the switch. But I claim the construction of the slide witch. But I claim the construction of the slide witch the de pending fanges or side plates, which encode the slide and crosspiece upon which it works, and allord a cer-tain and effective protection against gravel, dirt, snow, sleet, ice, and other foreign substances, which might other wise enter between them, and derange the opera-tion of thes witch.

SHTS BLOCKS-BY Charles H. Platt, of New York City: I do not claim the plates F. G. for the purpose of secur-ing the checks the proper distance apart, for they have been previously used. But I claim the employment or se of the rods E. passing through the checks in a direction traversely of the checks; said rods also securing the plates F G, to the checks; said rods also securing the plates F G, to the checks, and forming a staple for the hook as described. I also claim the rods placed underneath the e.ds of the shaft, for the purpose of preventing the wearing of the shaft, as set forth.

CENTRIFUGAL DRAINING MACH ES-By Wm. Richard on, of New Orleans, La.: I claim the arrangement in control to be and the second s

CLAMP FOR LATING FLOORS-By Stephen E. Parrish, of New York City: I claim the use of the brace having clawed ends for acting at opposite sides of a beam, in combination with a screw working at right angles to the same, substantially in principle of construction and operation, as set forth.

-----[For the Scientific American.] Patent Laws of New Brunswick.

[Synopsis of an Act of the Legislature of the Province of New Brunswick, passed in the Legislative Session of 1853, entitled "An Act to Regulate the Granting of Pa-

tents for Useful Inventions." By PETER STURS, Barrister at Law, St. Johns, N. B.] SEC. 1. The Lieutenant-Governor empowered

to issue Letters Patent for a period not exceeding ten years, which are available to applicant and his representatives.

SEC. 2. Applicant to state, in his petition, 'that he has invented or discovered a new and useful art, machine, manufacture, or composition of matter; or a new and useful improvement in some art, machine, manufacture, or composition of matter, not known or used by others, before his discovery or invention thereof, and at the time of the application, not in is to lodge £20 in the Provincial Secretary's ofpublic or common use in this Province, to which petition an affidavit is annexed, setting forth that the same is just and true, to the best of ap-

plicant's knowledge and belief. SEC. 3. With petition, a written description of the invention is to be given, signed by applicant and attested by two witnesses, setting forth the manner of making and using the invention, so as to enable any skilled person to make and use it; the principle of the invention is to be stated, and the several modes of applying it; a model is to accompany the application when necessary. Specimens of ingredients are to be

for his discovery in another country, can obtain one here for the same, if it has not been previously introduced into the Province and in common use therein.

by second section.

Fah., for about one hour. Those who dry fruit ever, may be contested in a Court of Justice. signee of any person who has taken out Letters on a large scale, will find it to their advan-[Remainder next week.] Patent for an invention in any other country. tage to dry it by steam heat, such as by but not for an invention made abroad, for which Bulkley's patent plan. We suppose there are METEORS .- We have received a letter from no patent has been granted; Provided, the inbut few who are aware that sugars which re-David F. Pattee, of South Dedham, Mass., vention assigned has not been in common use main proof against worm corruption in our STEAM FOR ACTUATING ENGINES-By Charles E. John and Samuel Wetherd, of Baltimore, Md. Patented in wherein he states that at about the same hour, in this Province, prior to the application for a pa-

SEC. 10. Copies of, specifications. depositions, assignments, &c., filed with the Provincial Secretary, when authenticated by him, to be received as competent evidence in all Courts, where any matter concerning the patent comes in question.

SEC. 11. Any person desiring the same shall be entitled to such copies.

SEC. 12. When the Attorney General decides that an application for a patent interferes with another application then pending, or with an unexpired patent, the Provincial Secretary shall give notice of such decision to the several applicants, or patentees, and if any of them are dissatisfied with such decisien, he may appeal to the Lieutenant-Governor in Council.

SEC. 13. On such appeal the Lieutenant Governor in Council may appoint three disinterested persons as a board of examiners, one of whom, if practicable, to have knowledge and skill in the matter, to which the alleged invention applies. Examiners to be sworn before a Justice of the Peace, and to be furnished with the Attorney General's decision and ground thereof, and they are to give notice, to the Attorney General and parties interested, of the time and place of their meeting.

SEC. 14. This Board has power to examine all parties under oath, which either of the Examiners can administer. The examiners or a majority of them, can reverse or affirm the Attorney General's decision. Before a board of examiners is appointed, the party applying for the same shall lodge £25 with the Provincial Secretary, for the purpose of paying reasonable expenses.

SEC. 15. Where the Attorney General entertains doubts as to an applicant's right to a patent, the Lieutenant-Governor may appoint a board of examiners, who shall have the same power as given to them in other cases. Before the board enter upon their duties, the applicant fice, for the purpose mentioned in last section. SEC. 16. In case of appeal from the decision of the Attorney General, it is optional with the

appellant to apply for a board of examiners or to appeal to a Judge of the Supreme Court. Appellant to a Judge to file the reasons of his appeal in the Secretary's office.

SEC. 17. 'The Judge shall determine the matter in a summary way, and the future proceedings of the Attorney General are to be regulated by the Judge's decision. The decision of the Judge not to preclude any person interested from the right of contesting the same in any to defray expenses.

To Prevent Incrustations in Boilers.

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At Ems, in Germany, it was recently found that no incrustation was formed in the boiler of a steam engine, which had been in use for two years, and although the water with which it was supplied contained 21.899 grains of solid matters in every pound. These were:

				Grains
Carbonate of soda	•			11.35488
Sulphate of soda				0.10790
Chloride of sodium				7.27020
Sulphate of potash		•		 0.43653
Carbonate of lime			•	1.24370
Carbonate of iron		÷.		0.01728
Carbonate of baryta				1.06890
Carbonate of mangar	1 66 e			0.00868
Carbonate of baryta	and	stront	ian	0.00215
Phosphate of alumin	a			0.01090
Silica			÷	0.37839

21.89951

From this Fresenius, the celebrated German chemist, concludes that it is not carbonate of lime, but only sulphate of lime which causes the formation of crust, and that in the present case this is prevented by the quantity of soda contained in the water. This has given occasion to investigations, in which soda was added to water containing sulphate of lime, which hitherto had always deposited incrustations. In these cases the action was always found successful, so that Fresenius regards the addition of soda as the simplest means for the prevention of incrustation.

He gives the following rule to prevent the addition of soda in excess :- 100 parts of anhydrous sulphate of lime are decomposed by 78 parts of pure calcined soda. The discovery of the correct quantity is so simple and easy, that this circumstance does not present the least difficulty. Care must be taken that there be always a slight excess of soda present, and the water in the boiler must therefore be tested from time to time. This is better and more accurately effected than with test paper, by dividing a sample (filtered if necessary) of the water of the boiler into two parts, and by adding to one part a solution of soda, to the other lime water. If the former remains clear, whilst the other is rendered slightly turbi, the proportion is correct. If the reverse is the case, soda must be added, whilst its quantity can be diminished if the turbidity with lime water be very great.

Preserving Dried Fruit.

charged, and the grate readjusted by a slight use of a poker. BATH G TURS-By JordanL. Mott, of New York City: I do not limit myself to any particular form for the pro-jection e, or to its locality, nor to the forms of the chan-nels therein, as these may be varied at pleasure, al-though I prefer to make the whole as described. Nor do I wish to limit myself to the making of the two channels in one and the same projection, and located at different parts of the tub. Nor, finally, do I wish to limit myself to the use of the channels, in combination, as the use of either one of the mwill greatly improve the bathing tub. I do not claim broadly as of my invention the connec-tion of the hot and cold water together, as this has before been done by a pipe or pipes, coupled with the bottom of the tub, and discharging unwards. Nor, do I claim broadly, the use of an overflow pipe, for carring off the water, and preventing the water in the tub from overflowing, as a separate device has be-fore been used for this purpose, but when so used, it was so connected with the waste and supply pipes, as to necessitate the use of a valve within the waste pipe, with all its attendant disadvantages. What I claim is described, and making when con-structed, part of the tub, one of which channel-ways is alopted to the insertion of the bot and cold water pipes, and discharging the bot and cold water pipes. And the forging and making chains out of a solid bar A correspondent directs our attention to the Court where it may come in question. Appel forwarded, where the invention is a composition preservation of dried fruit, such as apples, lant to lodge £20 before appealing to a Judge, of matter, sufficient for the purpose of experipeaches, plums, &c. As our's is a great fruit ments. country, he considers it a matter of great im-Sec. 18. Any person making a discovery or SEC. 4. Applicant having obtained a patent portance that those who prepare and those who invention, and being desirous of further time to buy dried fruits for sale, should have them ef-MARING CHAINS—By Christian Sleppy, of Newport, Par I claim the forging and making chains out of a solid bar without the welding process; and which is done in-stantly, as the bar passes between four rollers, with dies on the edges of the same, moulding the links into form, and which may be done out of iron, brass, or any sub-stance suitable to be used as a ch in, from the size of a cable to a watch guard. mature the same, may file a caveat, setting forth fectually insured against the attacks of worms. its design and purpose, &c., and such caveat He thinks that if there are any persons in our shall be in force for a year, and placed in the country who can suggest a remedy for worms in confidential archives of the Provincial Secreta-SEC. 5. Applicant for a patent dying before driedfruits, especially peaches, they are to be found ry. If application for apparently the same A NEALING HOLLOW IRON WARE-By David Stuart, of Philadelphia, Pa.: I claim the process substantially as described; the same consisting in coating the articles in the manner set forth, with the same composition that will resist heat and exclude air from the surface, and heating the a ticles so coated in an oven about the length of time specified. Letters are granted, his legal representatives are among the intelligent readers of the "Scientific thing is made, such application to be deposited entitled to the same on petition. American." We have no doubt but many of in like manner, and notice given to the person SEC. 6. Letters Patent may issue to any asour readers can suggest a remedy; but first of who filed the caveat, who, within three months, signee of a person entitled to a patent for any all, we will suggest one ourselves, and that is to is to file his specification and drawings. If the invention not previously patented, upon affida-SMUT MACHINES-By Robert Waskey, of Mill Creek, Va.: I claim the construction of the diaphragms, the central part being solid, and that near the periphery made in several oblique vabular passages to check and throw back the kernels of grain, as represented. dry the fruits by high pressure steam heat, or Attorney General is of opinion that the specifivit of assignor, that assignment is based on by a current of hot air above 212°. Or after cations interfere with each ether, the like progood consideration, and by assignor, as required these fruits are dried in the usual manner, to ceedings are to take place by appeal, as before Inrow oack the Kernels of grain, as represented. SMUT MACHINES-By Wm, Zimmerman, of Quincy, III.: I claim the machinedescribed, for cleaning and scouring grain, hulling rice, pearling barley, hulling buckwheat, or otherwise operating upon grain, seed, etc., with a series of two or more stationary cones with one, two, or three, or more revolving cones Placed and operated alternate-ly between the stationary cones: the Insides or outsides of part, or both sides of part, or all the cones being fur-nished with roughened s rfaces, of such a form or kind, as will perform the service required, substantially, as de-scribed. subject them in an oven to heat at about 250° described. The decision of the examiners, how-SEC. 7. Letters Patent may issue to the as-