

[Reported Officially for the Scientific American.]

LIST OF PATENT CLAIMS

Issued from the United States Patent Office FOR THE WEEK ENDING FEBRUARY 14, 1854.

FOR THE WERK ENDING FERGURAT 14, 1634. FIGKING AND CLEANING FLAX.-A. H. CARYL, of San-dusky City. Ohio.: I claims the employment of a picker having teeth hooked in the direction of the rotation and arranged on separate bars so connected with the shaft as to leave open spaces for the free passage of foreign substance as specified, when this is combined with hook-ed teeth in a series of bars above with open spaces be-tween them subskancially as specified, with a current or currents of air to act on the pickers during the operation of combing, and with the rotating brush acting on the picker teeth as specified.

VERTICAL TUBE FEED WATER HEATERS IN LOCOMOTIVE SMOKE STACKS-M.W. Baldwin, and David Clark of Phila-delphia, Pa.: We claim the arrangement of the exhaust pipes with a vertical central passage of large section and surrounding passages of similar section, said cen-tral pipe and similar passages being open above and be-low as described.

iow as described. MACHINE KOR, CLEANING WOOL-L.S. Chichester, of Brook-lyn, N. Y.: although I have described and represented the form of the ribs, barbs and picker teeth I do not wish to be understood as limiting myself thereth I do not wish to be understood as limiting myself thereth I do not wish to be understood as limiting myself thereth I do not wish to be understood as limiting myself thereth I do not wish to be understood as limiting myself thereth I do brushforpresenting or feeding the fibers to the ribs and picker teeth, as this makes no part of my invention. Nor do I wish to limit myself to the Born number or manner of making or operating the teeth. I claim making the edges of the ribs when combined with picker teeth for catching and drawing the fibers through as specified with lateral inclined or curved lats terminating in an enlargement or hole to receive the fibers and guide them away laterally from the pick-er teeth to prevent them from being chalted or cut be-tween the teeth and ribs as specified. I also claim making the alteral slots in the edges of the ribe, as specified, and in combination with the picker it eeth at or near the portion of that length of the ribs, where the fibers begin to be drawn through, as speci-fied, where the fiber bogin to be drawn through, as speci-fied, where the divers begin to be drawn through as speci-ters. I also claim uniting the contiguous barbs of any two

bers. I also claim uniting the contiguous barbs of any two ribs, and extending them down below the points of the picker teeth, as specified, to prevent here from passing without being picked or drawn through. Finally, I claim in combination with the ribs having lateral slots, as specified, the employment of card teeth interposed between the picker teeth, as stated.

VALVE COCKS-John Griffiths, of Philadelphia, Pa.: 1 clam the combination of the hollow fixed stem, the solid stem, and the yoked nut, as described.

FIRE AND BURGLAR-PROOF SAFES-F. C. Goffin, of New Ork City: I do not claim forming safe or door with dou-le casing, for fire-proof safes are at present construct-d in that manner

ble casing, for infe-proof safes are at present construct-ed in that manner. I claim the use of glass or slag in a vitrified state, for filling the space between the two casings of a safe or vault door, the glass or vitrified slag being poured mol-ten into the space, or inserted in plates which may be secured to the outer casing in any proper manner, and an air space left around the inner casing, as set forth.

secured to the outer casing in any proper manner, and an air space left around the inner casing, as set forth. PROCESSES FOR TREATING VECETAELE FIBER-Jonathan Knowles, of Trenton, N. J. Patented in France, April 4, 1853: I am aware that Claussen has proposed to use in his process several of the salts I have mentioned, but in a different field, but in any other in which the bleaching and splitting of the fiber are effected separately. I claim the method described of preparing vegetable fiber for picking, carding, spinning, and manufacturing into fabries by such machinery as is usually employed for performing the corresponding operations on ordina-solution of alkali ; second, washing it with water; third, steeping it in a solution of splitting solis, to bleach and split is simultaneously; and lastly, washing it with water, and then drying it, as set forth, whereby the re-duction of the fiber to its elementary filaments is expe-dited, and the expense thereof lessend, by dispensing with much of the tedious manejuplation and treatment heretofore practiced, while at the same time the quality of the product is impleations. G. Levis, of Delaware Co., MARING THEOR PAPER-S. G. Levis, of Delaware Co.

MACHINES FOR PEGGING BOOTS AND SHOES—John Stan-dish (agsignorto John Standish & H. A. Miller), of Cuy-ahoga Falis, Ohio: I claim, first, the vibrating guides, in combination with the peg-feeding rack and driver, as described. plan of Mr. Bogardus, as it would have been quite properties have been made dmring the past as imposing, and could have been taken apart described. Second, the arrangement for feeding rack and driver, as shee to be pegged; that is to say, the combination of the boot or shoe, held in a proper clamp, with the traversing frames, and with the irregularly curved rails or guides, as described. Third, the method of regulating the The Apps-Horace Smith & D. B. Wesson, of Norwich, Conn.: We do not claim the employment of a carrier or slide for transferring the carrier defined to the barrel, nor the employment in combination there, with of a piston or slide as a breech to the barrel, nor the diring by "concussion" instead of "percussion." Nor do we claim the employment of making or apply-ing the percussion hammer so as to strike on the rear end of such piston slide, as a breech to the barrel, nor the diring by "concussion" instead of "percussion." Nor do we claim the employment of making or apply-ing the percussion hammer so as to strike on the rear end of such piston slide, instead of directly against the cartridge or its priming, and so that the priming at the front end of the slide shall be exploded by concussion produced by the percussion or blow of the hammer on the other end of it. as specified. But we claim the arrangement and application of the percussion hammer with respect to the breech slide and the trigger guard lever, so that the hammer may be mo-ved and set to full cock by the pressure or back action of the slide induced by the action of the trigger guard lever, as specified. We also claim the improvement of making the front end of the piston slide with a dove tailed recess, or its the refusemental of the cartridge, as explained, and so that the refusemental or cartridge may be withdrawn from the barrel by the piston slide when next retracted and discharged by the upwated movement of the carrier, as specified. FIRE-ARMS-Horace Smith & D. B. Wesson, of Norwich year. An analysis has been published by Proafterwards, and erected into a number of beaufessor Way. The process is stated to be very tiful iron houses, in any part of the world. The simple, and the price estimated at \$25 per ton adopted building cannot be used for any other or under, and it is proposed starting manufac-Third, the method of regulating the feed by the rack pawls, and weight or spring, as described. purpose than the one for which it was erected, tories at various points on the coast. DRVING CLOTH-Robert Preston, of North Pownal, Vt.: I claim the arrangement for bringing the bottom layer of the cloth within the drying; chamber, to a suitable distance from the bottom of the chamber, so that it may be exposed to a proper and not too intense heat, consist-ing of the rollers, which are adjustable by racks and pinions or their mechanical equivalents, substantially as described. i. e., it cannot be taken apart and re-erected. An election of managers, is to take place next Another & Gas JExplosion. month. We hope that good ones will be cho-An explosion of gas took place at Nashua, sen,-men who will infuse a new spirit into the N. H., one evening last week by which a num affairs of the Association for the benefit of exber of persons were injured and a house shattered SHIFS' VENTLATORS-Warren Rohinson, of New Haven, Conn.; I do not claim any part claimed by Enoch Hid-den, of New York' in his patent. I claim the combination of the movable part, with the two inclined planes, when the whole is arranged and combined as described. hibitors and stockholders. It is intended to to pieces. It was caused by introducing a light make the Exhibition permanent; this we think into a cellar, where there was a strong odor of is not an unwise conclusion,-perhaps the gas, caused by its escape from a leaky pipe .-only really wise one the present Directors ev-The person who introduced the light was not a HANGING THE FORE PLATE TO IRON ROLLING MACHINE-RY-Jacob Reese, of Sharon, Pa.: I claim hanging the fore plate of a rolling mill on centers, placed either above or below the level of the rolls, by adding arms to the fore plate, working on a bar or on pivots, for the er made. Such an Exhibition, in New reader of the Scientific American, or he would discharged York City, under proper management, we MACHINE FOR SCRAPING AND TOOTHING VENNER-Allen YORK City, under proper management, we Goodman & Lyman Wheeler, of Dana. Mass. : We claim believe, can be made to pay good dividends, not have acted so unwisely, after what we have said in reference to such cases.

purpose of removing the fore plate out of the way when the rolls are to be scoured without detaching it from the frame of the mill, as described.

PLANTING HOES-W. G. Sterling, of Bridgeport, Conn.: I do not claim the blade with a tubularhandle attached, nor the opening and closing orifice for the discharge of the grain. I claim the cylinder in connection with the tubular handle and the lever, with the sliding plate attached, as described.

APPARATUS FOR CONTROLLING THE PRESSURE OF STEAM —By H. S. Williams, of Malta, Ohio: I do not claim ad-mitting water from a steam pump or "doctor," for con-trolling the pressure of steam in boilers, when said wa-ter is let on and shut off, by the agency of a float. Nei-ther do I claim causing an alarm to be sounded when the supply ceases or when the pump is not running, through the agency of a float and steam cylinders com-bined.

through the agency of a float and steam cylinders com-bined. Iclaim opening the water cock of the steam boiler for the purpose of letting on water for reducing the temper-ature and pressure of the steam, and thereby prevent-ing explosions by means of a punker c and slotted arm, as described, when the supply should be let on by the pressure of the steam of the safety valve, and by means of a spring attached to the boiler and slotted arm, when the supply is being shut off, as specified. I also claim startling the steam pump or doctor run-ning, in case it should not be in operation when the pressure of the steam in the boiler rises above the giv-en point, by means of the escape steam from the salety valve, when admitted to the steam chest of the pump through a branch pipe of that carrying the plunger, said branch pipe being provided with a valve, which pre-vents the steam from the "doctor" passing into the boiler, when the pump is running, but allows of the steam being admitted to the steam chest when the pump is not running, as set forth. Daor BRIDGES-J. D. Woodruff, of Newark, N. J., and

DROP BRIDGES-J. D. Woodruff, of Newark, N. J., and Joshua H. Butterworth of Dover, N. J.: We claim the construction of a bridge or draw, which may bedropped below the surface of the water so as to a duit the pas-sage of vessels over the same, as described.

MAKING LINKS OF JACK CHAINS—Arcalous Wyckoff, of Wellsburgh, N. Y.: I claim the two fixed stnd pins pla-ced at right angles to each other, in combination with the wiper and cutter, operated as set forth, for the pur-pose of bending the two eyes of the link of the jack chains simultaneously.

GAS DURNERS-John Webster & OrsenSpencer (assign-or to John Webster), of Cleveland, Ohio: We claim af-fixing or applying to a gas burner an oblong or ellipti-cal shaped tube, so constructed and arranged as to de flect a portion of the gas escaping from the burner into the draught of air which passes up between the barner and the tube, so as to produce a more brilliant flame and more light from a given quantity of gas, as described.

SADDLE-TREES-G. B. Ambler, of Trumbull, Conn.: 1 claim the combination of the crouper loop in one piece with the water hook, for the purpose of securing either in their respective positions without the aid of screws or other appendages than those herein set forth, and to be used as described.

WATER CLOSETS—F. H. Bartholomew, of New York Ci-ty: I do not claim the use of the chamber when com-bined with the supply pipe or hydraulic main, and the basin, by means of the common three-way plug turning cock, operated by the seat, as such combination has been before used in the water closet of Jordan; nor do L cleic by the purper values cock with two malwas and

beam of the sear as such combination has been before used in the water closet of Jordan; nor do the claim the pupper valve cock, with two valves, and three ways as new in itself.
I claim first, a three way cock, with parts constructed and combined in the following manner, viz., Having one principal chamber through which the water always passes, whether being received or discharged, two openings into which chamber being governed by two valves operated by one stem, so that when one is opened the other is closed by the same action of the stem, the third way being without a valve, when these are combined with a second chamber for the accommodation of a short continuation of the valve stem, through which the oack is operated by a suber of the way is placed between the principal chamber and the stem chamber. as described, alove, under the sear, or where it may be out of the way and may be operated by a singlerod, when said cock is connected by a sling without a combining in the pipes above the cock, when not in actual use, and through which a chamber for the pipes above the cock, when of a valve cord whith a chamber for the puppes of water from the chamber, and through which the actuation is provided with a chamber for the puppes of valve and through manner of a valve or otherwise, at the same time that the said way is closed by a valve against the escape of water from the chamber, of middle Haddam, Ct.:

water from the chamber, while the seat is depressed. Horse Bells—Jason Barton, of Middle Haddam, Ct. : I do not claim the employment or use of two clappers or balls in each bell, forthey have been previously used. I claim hanging or suspend ing the tongues within the bells, as described, viz..having the songues placed over curved holders, which are attached to the pad. saidhold ers being within the bells, and so arranged that the tongues may be placed over them at different points and thereby be suspended in the centers of the bells. irrespective of the positions which the pad and bellimay have when attached to the body of the animal.

a machine for scraping and toothing veneer, which has a large feeding hed roll around a portion of which the veneer is bentand held, and a revolving cylinder with scraping or toothing tools or knives inclined back from the axis of the said cylinder, so as to have a scraping instead of a cutting position, as described.

BALL VALVES FOR PUMPS-J. R. Bassett, (assignor to C. H. Williams), of Gincinnati, Ohio: I claim the method of aiding and ensuring the operation of the ball valve by means of an intervening or dividing ridder placed be-tween the openings, and forming part of the semi-an-nular chamber, as described, by which the valve is made to seek apd occupy its appropriate seat when acted on by the discharge water in one or the other direction.

SAUT MACHINES-Jacob Benner, of Liberty, Pa. Addi-tional toriginal Letters Patent dated Sept. 11, 1647; 1 claim making the slotted openings in the concave horl-zontal instead of vertical, as they were in the original patent, as described. Second, the arrangement and combination of myma-chine in a close cover, together with the spouts in the manner, as set forth.

MANNER, AS SET IOTON. PIGURE AND FANCY POWER LOOKS-Your petitioners hereby enter their disclaimer to that part of the afore-mentioned specification. which commences' The modes of elevating and depressing the lifter," and ends "true and essential principle of my invention is preserved,"--being the forth paragraph from the end of the specifi-cation: and also enter their disclaimer to the first, se-cond, and fourth claims of said patent, which disclaim-ter is to operate to the extent of the interest in said Let-ters Fatent vested in your petitioners, who have paid \$the requirements of the Act of Congress, in that case made and provided. M A. Prantus, GEO, OROMPTON.

DESIGNS.

COOKING STOVES-(Three patents)-Samuel D. Vose, of Albany, N. Y. Ante-dated Dec. 30, 1853.

PARLOR STOVE-Saml. D. Vose, of Albany, N. Y. Ante dated Dec. 30, 1853. PARLOR STOVE-N.S. Vedder (assignor to A.T. Dun ham & Co.), of Troy, N.Y.

Crystal Palace-Report of the Directors.

The Directors of the Crystal Palace havejust published a Report, containing a statement of their affairs. This document is not calculated to raise the stock greatly above par. The Company comes out minus \$125,000; that is, instead of having made any profits, they have run in debt to that amount-for a part of which they have mortgaged the building. The capital stock is \$500,000, and the total receipts were \$891,07072. The amount received for tickets was \$330,702 90. The Report states :--- "It is apparent, from the foregoing statement, that the disappointment in regard to the financial result of the enterprise is due mainly to the fact of the building not being completed at the time which it was intended, viz.: the first of May, 1853." This was owing to causes over which the Directors had no control. The Exhibition was, with great effort and difficulty, got ready for opening on the 14th of July, and then in a very incomplete state.

"Instead of a period of exhibition of seven months, the Association had in fact but about three; during that three months the sum received, from the sale of daily tickets, was \$245-399 90." This is not a satisfactory apology. The largest amount of receipts was taken in the month of October, viz., \$108,139 01; since then they have gradually fallen off.

The expenditures have been excessive. The The command was given to Capt. Jouanno, of persons who have come off best in the affair are Lorient, and her firstvoyage was to Rio Jathe conspicuous, enterprising, know-how-toneiro, from which place she has just returned. MAKING THICK PAPER-S. G. Levis, of Delaware Co., Pa.: I do not claim the employment of two forming cy-linders for the purpose of making paper of increased thickness, as cylinders have been thus used before. I claim the combination of the two formingcylinders, the two endless felts, and the two squeeze rollers, ar-ranged and operating as described. Intespective of the points which is bad with being may have when attached to the bod y of the animal.
MACHINERY FOR PACING BLANK BOOKS-J. L. BURCICK, of New York City: I claim, first, the type holders, as set forth, in combination with the vertical type cylinder, for the purpose specified.
Becond, I claim the use of the vertical sliding rod or frame, having a rack attacked thereto, in combination with the double acting crank shaft, and levers for operating the printing hammers, or substantially the same device, for the purposes setforth, and also the combination with the lever, and rod fordrawing out the type holders, or their equivalent devices, substantially as forth.
Third, I claim the use of the vertical sliding rod or frame, having a rack attached thereto for working the distributing inking rollers, in combination with the tayer of the requivalent devices, as set forth.
Fourth, I claim the use of the vertical sliding rod or frame, having a rack attached thereto for working the distributing inking rollers, in combination with the lever or negating the type inking rollers or frame, having a rod attached thereto, in combination with the lever for operating the type inking rollers or frame, having an of attached to thereto, an econometation with the lever cert.
Fifth, I claim the use of the vertical sliding rod or frame, having an or attached to the cap piece of the frame, in combination with the sliding plate and lever and pawi, or their equivalent devices, for the purposes set forth. make-money Edward Riddle, the American The captain reports that the experiment has Commissioner to the London Exhibition. Mr. been highly satisfactory; she has proved an Riddle and the officers of the Association excellent sea-boat in repeated gales, which she obtained a lease from our City Fathers of Rehad to encounter; and one fact is stated of Fanged and operating as described. FIRE-ARMS-Thomas Gook (assignor to Starkie' Live-sey), of New York City: I claim, first, cutting slots in the tubes of the magazine, and with each tube a spring connected with a ring moving on the outside for feeding up the spring and maintaining the compressed position given at the time of charging the tubes with ammuni-tion, as described, whereby I am enabled to force such charge into the conveyor by power independent of gra-vity, and to force the hole communicating with the pow-der, as described and this I claim, whether the I ceed ring be combined with a sorew exteriorly placed or with-in the interior of the cluster of tubes, or whether the same effect be produced by or in any manner analo-gous. servoir Square, for five years, at the nominal much importance-that her compasses had nevrent of \$1 per annum, and with their flush wav er been in the slightest degree affected, a circumstance which often happens on iron ships, of paying out the stockholder's money, the Directors paid him \$10,000 for this lease. This by which serious casualties have occurred. was cool and bright, was it not? No less than \$15,412 97 were paid to Chas. Buschek, Gen. Guano from Sea Weed. Agent, and Col. Hughes, Special European A new patent substitute for guano, consisting same effect be produced by or in any manner analy-gous. Becond, I claim combining theitube magazine with the conveyor, in such a manner that it will be revolved so as to bring each tube of the series successively opposite to the hole through which the charge is fed to the con-veyor, whenever and as often as a charge has been transferred to the barrel, as described. Third, I claim the follower in combination with the charge into the barrel, as described. Fourth, I claim the can groove, in combination with the finger levers, and the cap case to regulate the feed, as described. Agents. The Company purchased the bronze of decomposed and concentrated sea weed, is statue of Kiss's Amazon, from the former genabout to be introduced in England, by a Mr. tleman, for \$10,000. The cost of erecting the Longmaid, with the purpose of claiming the set forth. Sixth, I also claim the use of the adjustable table and clamps for holding the book while paging, in combina-tion with the paging apparatus. building, independent of decorations was over prize of \$5000 offered by the Royal Agricultural Society. The material is reduced to pow-\$500,000, an enormous sum. It is a beautiful MACHINES FOR STUFFING HORSE COLLARS—J. W. How-ell of New Paris, Ohio i I claim the construction of the hopper with an adjustable grate or crib bottom, in com-bination with the piston, funnel, clamps, and lever, act-ing thereon, as set forth. building, but it would have been well if the Asder so as to be applicable by the drill. A large sociation had taken our advice, and adopted the number of experiments to test its fertilizing

and render a great benefit to the public at large. The present Directors have mismanaged all but their own affairs, badly; this is very evident. How much stock they now own we cannot tell-probably they sold out when the shares were 100 per cent., higher than they are at present, and they no doubt had much to do with their temporary inflation. We are quite positive that the Exhibition would have paid well this year, had it been properly managed; let able Directors now be chosen, and it will rise, Phœnix-like, into prosperity.

Steamships Beaten by Clippers.

The clipper ship Red Jacket made a recent voyage from this city to Liverpool in 13 days, 1 hour, and 25 minutes, which is something remarkable considering the extremely boisterous weather she encountered throughout the passage. On one day she ran 413 miles.

She had the wind from the S. E. to W. S. W., the whole passage with very stormy weather, either snow, rain or hail the entire voyage, bnt she received no damage, and arrived in port without the loss of a single rope yarn.-She run 15 knots on the wind, and 18 with the wind abeam.

The Red Jacket is a beautiful clipper ship of 2400 tons burden, and was built in Rockland, Me., by George Thomas.

Not one of the Collins or Cunard steamers have ever run 413 miles in one day, so that we may safely conclude, that our marine Steamships, have not yet attained to their maximum speed.

India Rubber Patent Case.

On the 16th inst. by Judge Betts, U. S. Circuit Court, this city, an injunction was granted against the New England Car Spring Co., on the petition of Horace H. Day, for infringement of the Chaffee patent. The injunction was ordered to issue unless security to abide the decrees of the Court is put in by the defendants in the sum of \$25,000. Horace is now turning the table on his former pursuers; such is the mutability of human affairs; india rubber is a tough subject.

Zinc Applied to Ship-Building.

A sloop built of zinc, with iron framing and wooden decks, called the "Comte Ldhon," has been constructed at Nantes, France, by Mr. Gulbert, and named after one of the directors of the Vieille Montagne Company. She is elegant in form, draws but little water, and is considered in every respect a first-rate vessel.

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