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Reported Officially for the Scienti fic American LIST OF PATENT CLAIMS

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FOR THE WEEK ENDING NOVEMBER 30, 1852. SCREWING BOLTS, &C - By John Caswell, of Sy-racuse, N. Y. (assignor to A. C. Powell) : I claim, first, the movable ways running in yielding bearings, back and forth, under the machine, and supporting the vise, as set forth. Second, the adjustable styp or gauge on the side of the friction nut working in contact with the mo-vable finger, or any similar projection in the die chuck.

chuck.

ATTACHMENT FOR CONVERTING THE ORDINARY INTO A PAPER VISE - By J. W. Bliss, of Hartford, Conn.: I claim an attachment to the vise, substan-tially as described and for the purposes set forth, which attachment is removable at pleasure, and require no change in the construction of the vise to which it is applied.

HORS-By Wm. C. Finney, of Fayette Co., Tenn.: I claim the extension of the blade of the common cotton hee, upward and backward, in a curve, in such form and manner to enable the laborer, by in-serting his instrument and pushing it from him, to remove, by the cutting edge, any grass, weeds, su-perflous plants, &c., as described.

MORTISING MACHINES-By Jos. Guild, of Cincinnati, Ohio: I claim the sliding wrist connected with the chisel and also with the driving power, in the manner described, in combination with the mechamaind described, or its equivalent, for sliding said wrist, so that the operator can, during the motion of the machine, wary the depth of cut of the chisel, or cause it to be suspended without disconnecting the desire a machine the suspended without disconnecting the driving power.

ENDLESS BELTS TO THRESHING MACHINES -By ENDLESS BELTS TO THRESHING MACHINES-BY J. R. Mofitt, of Piqua, Ohio: I claim the continu-ous open apron, having its belt formed of links, whose cogs are at one part of their rotation (in con-nection with the pinions), or means of propulsion, and are, at another part of their rotation (in con-nection with the rollers or otherstationary objects) a means of agitation of the said apron.

PLOWS-By F. E. Richardson, of Hicksford, Va. I claim mounting the double pointed share upon the central shoulder-piece, and fastening the same by a link piece, as described.

ROTARY KKITTING MACHINES-By Horatio G Saford, of Worcester, Mass.: I claim the com-bination of the mechanism termed the stop-motion, with the rotary knitting machinery of the kind, as specified, the object of the stop-motion being to ar-rest the operations of the machine on breakage of the same the yarn

ROTARY KNITTING MACHINES-By David Tainter, of Worcester, Mass: I do not cfain the combining one or more draft rollers and a take-up roller, or drum, in one frame, which, when put in rotation, shall carry them simultaneously around with it, so as to draw forwards and wind up a rope or cord, or like manufacture, formed of strands twisted toge-ther.

In the manufacture, formed of statute encoded by ther. Nor the application of a take up roller or mecha-nism as used on either a common warp or flab braid knitting machine: but I claim to so combine adraft and take-up roller, and mechanism for revolving it, with a rotary series or set of needles and other me-chanism of the peculiar kind mentioned for knitting, that such draft roller shall rotate simultaneously, or with the same velocity, with such series of needles, so as to prevent the longitudinal rows of stitches from being produced in helical lines, and the evil consequences resulting to the fabric therefrom. Also the arringement of the draft and take-up me-

Also the arringement of the draft and take-up me-chanism, in connection with the knitting mecha-nism, supported by two separate frames, and also their connection with the mechanism for producing an equal and simultaneous rotation of these frames all substantially as described, whereby there shall not only be no connection between the frames to not only be no connection between the frames to extend through the fabric but no projection from the frames come in contact with the presser, stitch wheels, and cam bar, or their respective supports, during the simultaneous and equals rotations of both or either of the said frames.

COOKING STOVES-By H. J. Ruggles, of West Poultney, Vt.: I claim the combination and arrange-ment of the front and rear flues and air chamber, as set forth.

STONE AND EARTHENWARE—By Jacob & Freeman Wise, of Fredericktown, Pa.: We claim, first, the mode of attaching the mandrel so that it may re-volve on its axis, by means of friction with the clay, and at the same time be moved from side to side within the mould. Second, the mode adopted for varying the relative thickness of the different parts of the manufactured orticle

GENERATING HEAT-By Wm. Hartell, of Kensington, Pa, and Jos. Lancaster, of Spring Garden, Pa.: We claim the adaptation of, or rendering available tar as a fuel, for the production of the intense and steady heat required for the melting and manufactu-ring of glass, by introducing water or the vapor of water into the furnace in contact or in close proxi-nity. or in combination or mixture with the tar. in

A New Steamboat Paddle Wheel.

The following is the description of a new paddle wheel, copied from the "N.Y. Tribune," which copied it from the "Detroit (Mich.) Advertizer." The wheel is the invention of Capt. W. A. Bury :-

"The wheel which he has invented is formed, in all its parts, exactly like the paddlewheels of a steamboat, with the exception of the paddles or buckets. In the common paddle wheel the paddle or bucket is a solid oblong board, fastened firmly across the two parallel arms. In this new wheel a paddle or bucket is affixed to each arm by a strong hinge in the inside corner of the arm. The two pad dles being equivalent to one common one. The paddle itselt is an oblong piece of wood, shaped like a wedge and hung in the arm, so that the heavy end is between the arms, and the light end is outside. But the lightest division of the paddle has the most surface, and it is upon this fact the utility of the invention depends. For instance, the wheel revolves. the paddle strikes the water, but it is so hung on the arm at a certain angle, that the outside corner gradually sinks in, and as the wheel revolves, the surface of the paddle meets the water gradually, but so as to press it back against the arm, where it is firmly held by the pressure caused by its own motion through the water; as the paddle rises to the surface, the angle at which it comes out of the water permits the heavy end to fly back against the inside of the arm, and it thus comes out edgeways, exactly on the principle of feathering an oar. The paddle, by the simple operation of the principle of gravitation, remains with its edge directly in the line of the revolution of the wheel till the arm passes the perpendicular, when the paddle falls into its place ready to meet the pressure of the water again."

[Paddles with wedge-shaped extremities are not new; neither is the hinging of them; we have seen a number of models with hinged paddles. They will not answer; they may do very well on a model, but on a large scale will soon go to pieces. The water lift, to obviate which so many paddle wheels have been invented, is obviated by making the wheels of large diameter, or on the Galloway feathering principle. In Vol. 2, page 169, Scientic American, there is an illustrated feathering wheel of Mr. D. G. Smith, of Pennsylvania, and on page 249, same volume, there is a paddlewheel with jointed paddles the invention of Mr. McCarthy, of Saugerties, N. Y.

Recent Foreign Inventions.

WAX CANDLES .- T. H. Smith, of Hammersmith, England, patentee.-The improvement is in the wick preparation. They are saturated in a solution formed of 4 ozs. borax, 1 oz. chlorate or potash, 1 oz. nitrate of potash, and 1 oz. of salammonia dissolved in three quarts of water. After this they are dried and fit for the waxing.

HAT BODIES .- J. Johnson, London, patentee .- He mixes cork dust mixed with wool or the substances now used for hat bodies, employing fine whalebone for stiffening.

NEW COMPOSITION .- J. Hinks and E. Nicholl, of Birmingham, England, patentees .-The new composition is for making boxes for holding steel pens, &c. It is composed of 3 parts of gutta percha mixed with one part of wheat flour, or with other farinacous substances by heated r ollers, and then stamped into shape.

Ventilating. and Warming large Buildings. The following process for the above

WINDOW BLINDS-By Nathan Chapin (assignor to Nathan Chapin & J. F. Driggs), of New York City. whole year, consequently costs nothing. Sethe six wards by a steam engine, to heat the office stoves, the baths, &c., to raise the waconveniently to the kitchen. There is an ted through our columns. open grate on the ground floor of each building, for those preparations that must be made over a fire, and the heat from the smoke is employed to ventilate the water-closets. The expense of warming the hospital in winter is \$2,805, and that of ventilating it in summer \$935, which is paid for by the employment of the steam for warming the baths .- | Genie Industriel.

Improvements in Machinery Benefit the Working Man.

There are many ignorant men who speak of the evils which have been brought upon working men by improvements in machinery; there are others also who say that in the mechanics and others in this section. old times, when ignorance in the arts and everything else was bliss, that the working men had more to eat and drink than now, and that old England was then " Merry England," her people having plenty of roast-beef and plum-pudding, while now, owing to machinery and so on, it is no more Merry England; her mechanics are half starved, and her working men are whole starved. This is all nonsense, improvements in machinery have improved the conditions of all classes, as the following extract from the London Builder will show :-

OUR ARTISANS AND THEIR PRESENT PROS-PECTS .- It certainly seems to us that the artisans of the United Kingdom have never had now. Nothing is to be done without industry, right endeavor, and good conduct; but with these they all may, if they please, maintain themselves respectably, and make satisare disposed to think there are comparatively few really good workmen out of employ, and while bread and other necessaries of life are cheap, wages are high.

"At the present day, a Manchester joiner, who earns 4s. 4d. for ten hours' labor, can purchase a day's tood for one-fourth of that sum; hence it follows that his disposable wages are 200 per cent. higher for ten hours labor, than a man could have earned in 1725 by working twelve hours. Compare the prices of things even forty years ago, with the prices now-salt, sugar, tea, butter, soap, flour, clothes;-examine, too, the increase in the average length of life (an important point,) and the improvement in the material condition is made evident; while, if you notice the establishment of elementary drawing schools, artisans' schools. schools of design, and free libraries, you will see a good prospect opening for intellectual advancement. At all events, and we offer the advice only to such as are disposed to take it from us, and will not think it impertinent, do not fail to give your children the advantage of the means of improvement and ultimate advancement which offer themselves; send your sons to the elementary drawing schools, and encourage in them a taste for reading.

Explosion of Lime Barrels.

George Dragan, for the last six years em-

warming baths of every kind, as well as for heat, and which has a most extraordinary exthe laundry use, the ventilation, during the pansive power. A large cast-iron cylinder of great thickness, which was employed to converal boilers are employed to produce the tain carbonic acid gas in the Polytechnic steam for the different duties of the hospital, Institute of Paris, exploded with terrific force, -to warm the rooms by means of hot water killing the assistant lecturer in an instant. If stoves, independent of each other, to ventilate carbonic acid gas burst an iron cylinder as thick as a cannon, what is to hinder steam from bursting a barrel. A reader of the Scientific ter and wash the linen. These are placed in American would have known this, for the ina court behind, away from the patients and formation has more than once been propaga-

Mechanics and the Scientific American.

The following is from our excellent cotemporary, the Marshall Telegraph, Marshall, Ill., J. G. Jones, editor. It contains plain and kindly spoken truths. No mechanic now can rise either to be a foreman or manager, or a good tradesman, or can be qualified to do business for himself intelligently, unless he takes a paper devoted to the progress of invention and the arts :-

"We acknowledge the receipt of the Scientific American from the commencement of the present volume, and most cordially recommend it to the patronage of

Whilst on this subject we must confess that we have been pained to witness the indifference manifested by our young mechanics generally, and those who are learning mechanical occupations, in qualifying themselves to become complete masters of their business.-This is not right. When a young man starts out in life to learn a trade, he should do it with a determination to excel in his particular branch. This can only be effected by reading the observations of others, and profiting by their experience; and at the same time deep thought and close application on the part of the student. If a young man desires to become complete master of his business, he should not consent to be satisfied a better prospect before them than they have with the instructions of his employer onlyimagining that all has been learned that can be; but he should read, study, reflect, investigate, and inquire into the whys and wherefores-become acquainted with first princifactory progress. At the present moment we ples. Why have we so few superior workmen in the different branches of mechanics? Simply for the want of the right kind of application on the part of those who follow such pursuits. They have the ability, the intelligence, and the energy if they would but bring them into operation. Young men! instead of idling your time in reading foolish, simpering, mawkish love stories and novels, get good scientific works, connected with the branch of business you are learning, and store your minds with facts which will last you as long as you live, laying the foundation for future usefulness, and bring to you honor, fame, and competence. What made a Franklin, a Fulton, an Arkwright, and a Watt? Was it foolish, trifling reading ? or was it a proper direction of their leisure hours to the right kind of study ?-That which has been done by others can be accomplished by you; the positions they have filled in community can be attained by you, if you use the same industry and persevering application.

Throw away your love-sick novels and procure good scientific works. We know of none better to recommend than the Scientific American."

Shawl Fringes.

M. Blanquet, a French manufacturer has invented an ingenious apparatus for giving a double twist to the fringes of shawls, tartans, &c. This has been contrived in order to

DESIGNS. PARLOB STOVE-By D. Argold, of Providence, R. I.	act together to increase two-fold the supply of injected air. This engine sets in motion the	This is no question for savans at all;	firmness that are required in a similar machine. It is now being tried in the government mint at Paris, and will be specially employed for
and then causing the cast-iron to flow over and upon the surface of the steel thus prepared, in the manner	is relieved in case of stoppage by another auxiliary one, and in cases of epidemic both	Here then is another question for savans- "will lime explode[Ex.	nomical construction, which appears to unite all the advantages of regularity, precision and
claim uniting the steel and cast-iron, as described.	without its action being neutralized by open-	head as to cause his death in a few moments.	State, a new coining press; having an eccen- tric and direct action, and of simple and eco-
STEEL-By Mark Fisher & Wm Martin, Jr., of New-	to the other, and issues by eighteen orifices	force, and so badly shattered the German's	into France, with the authorization of the
sidesand bottom of the vessel.	power, by numerous apertures in the centre of the rooms which it passes along from one end	water upon the lime and shaking the barrel atter closing the bung, it exploded with great	Coining Machine. M. Bovy, of Geneva, has just introduced
sides of the vessel, as described, so that the action of	a quantity invariably equal and of the same	purpose of cleansing it. On pouring boiling	in this respect.
delphia, Pa. Originally patented Oct. 3, 1848, and	the top of the building, so as to be always pure, and in summer cool. It is sent inside in	morning last, by the explosion of a barrel, into which he had put unslacked lime for the	Fair in London, on account of their superiority
RE-ISSUES.	France :- The air is taken from a tower on	road, was killed at Sandusky on Thursday	common Anglish shawis, which were eagerly
the manner set forth.	nose is adopted in the Northern Hospital of	ployed in the shops of the Mad River Rail-	imitate in French shawls, the fringes of the