man may make valuable improvements upon a patented machine ents for them, he cannot use the elements of the original ma-infringing on the first patent. Althou n d obt**a** h ine wi [C. A. Durgin and J. Marshall, for complainants. Runyon & Leonard, for defendants.]

BOSTON DIATITE COMPANY.

[In equity.-May Term, 1874, to wit: September 3, 1874.]

<text><text><text><text><text><text><text><text>

[E. W. Bond, for complainant, T. W. Clarke, for defendant].

REPEAL OF PATENTS .--- OPINION OF THE ATTORNEY GENERAL

The following letter of the Attorney General is of great interest to patentees and the legal profession, as it contains an announcement of the princi ples which will control the Government in the matter of its joinder in suits to repeal patents:

DEPARTMENT OF JUSTICE, Washington, D. C., November 19, 1814.

DEPARTMENT OF JUSTICE, Washington, D. C., November 19, 1874. SIR: On the 6th instant an application was made to me by Messrs. Curtis and Corwine for leave to use my name in a suit upon the relation of George R. Fearing, Eag. to vacate a patent issued to H. F. Murdevani, for a coil or ribbon of blank wood for the Use of progrid pachines. It was alleged as a ground for this application that there was a want of noveity in the said rib-gen or coil. Accompanying this application were several affidavits to the effect that Sturdevant had recently raised the price of said blanks from tweive and a half to twenty cents each, and that a similar article was offered in the market for eight cents. I was induced to think, upon the showing them made, that the leave asked for should be granted, and you were accordingly instructed to take the neces-cary steps for the commencement of the suit. Since then, application has been made to me by Messrs. Curtis & Corwine to amend the bill, and at the same time Mr. Sturdevant, with his counsel, Mr. Roberts, and others, claim-ing to represent the manufacturers of boots and shoes, asked to have the order made for the use of my name in asid suit rescinded. It is somewhat difficult to determine in what cases the Attorney General should allow his name to be used were we Multor, 'I wall, 'A. The ancient mode,'' says the court in that case. 'of doing this in the Lagilah courts was by accided racias, and three classes of cases are laid down in which this may be done. When the king, by his letters patent, has, by different patents. granted

When the king, by his letters patent, has, by different patents, granted same thing to several persons, the first patentco shall have a scire factors

1. When this to several persons, the first particle of the same thing to several persons, the first particle of the second. 2. When the king has granted a thing by false suggestion he may, by scire factas, repeal his own grant. facias 3. W and fo when he has granted that which by law he cannot grant, he, jure regis or the advancement of justice and right, may have a scire facius to re-

Scientific American.

Recent American and Loreion Latents.

Machine for Rolling Blanks for Nut Bars.

George Johnson, Haverstraw, New York.-This invention consists LOOKING GLASS PATENT.-THEFLOBENCE MANUFACTURING COMPANY U. THE Of a revolving clearer having notches in its periphery, in combination with a pair of rolls for rolling notched bars. The notches of the clearer correspond to the notches in the rolls for forming the hexagonal nuts, so as to mesh with the notches in the soft, hot iron as it is received and discharged by the clearer.

Improved Water Elevator.

Henry M. Sweet, East Haddam, Conn.-The shaft passes through a box flange which is attached to the brake lever. This box flange is made to slide in a slot of a curb sufficiently to throw a pinion out of gear with a wheel. The pinion is thrown out of gear, at the same time that the brake is applied, by manipulating a lever, by means of which the bucket may be stopped, when full of water, at any desired point

Improved Garter.

Samuel Chard, Mianus, Conn.-This consists of an outside spring band and an inside adjusting band, severed at one point, and connected together. The inner band will be made a little less in circumference than the limb which it is designed to clasp. It is placed over the top of the stocking, and exerts, through the spring band, a gentle pressure sufficient to hold the stocking securely to the leg.

Securing Handles to Burial Caskets.

William S. Wood, Newtown, N. Y .- An ear plate extends from one end to the other of the handle, and is of some ornamental design. A stay plate is placed on the inside of the casket and is secured by screws and nut rivets having square shanks, which pass through square holes in the stay plate, and through the side of the case, and are riveted thereto to keep them in place before the handles are attached. The stay plate extends down through the case to near the bottom with a rib on its outer side, and has a tendency to stiffen the side of the case and keep it in shape when lifting upon the handles

Imporved Voltaic Battery.

Dr. Robert Arthur, Baltimore, Md.-This invention relates particularly to an improvement in the mechanical construction of the batteries known as the Bunson or carbon and the Grove, although it is applicable to other forms. The invention is the result of difficulties teries for running a small electro-magnetic engine, and for operating an electro-magnetic mallet for condensing gold in the operation of filling teeth. The battery is composed of the following elements, namely: An outer jaw or cylinder with lower end closed, having a groove or depression in its bottom containing mercury; an inner perforated cylinder having one or more tubes attached; and a carbon plate provided at the upper end with a platinum tube, and fragments of zinc in suitable quantity, the latter being placed in the annular space between the outer jar and inner perforated cylinder.

Improved Mooring Attachment for Buoys

Henry Brown, Charleston, N. C.-The object of this invention is to provide a means of replacing the worn out loops of buoy bottoms and ballast balls, without the expense, time, and trouble usually involved in the repair of the same. It consists in making the bottom plate of the buoy with a pocket, which receives a detachable mooring link, to be fastened therein by a keyed bolt. It also consists in ing shanks of two loops, and the other a bolt which passes through the said shanks and locks them.

Improved Water Piston for Hydraulic Presses.

John F. Taylor, Charleston, S. C.—This invention consists in a hy-draulic piston formed of the usual packing rings, so united with a cut and an elastic ring that a very durable and efficient piston is obtained, while the cost thereof is comparatively small.

Improved Car Coupling.

Ezra N. Gifford, Cleveland, O.-This invention relates to certain improvements in car couplings, and it consists in the peculiar construction of a slot or recess in the side of the coupling catch, in which rests the end of a cross bolt, by means of the peculiar conformation of which said recess the said catch is controlled in its motion and position, and the danger of its loss obviated. It consists also in the inclined shape of the shoulder upon the front of the coupling catch: and the mode of locking the short cross bolt by embedding its bent end in a recess in the drawbar, whereby the said bolt is protected from incidental knocks, is always kept in place, and is easily detachable. The invention further consists in the peculiar construction of the drawbar in combination with the coupling catch and bolt.

Improved Velocipede for Picking Cotton.

Charles and George E. Hess, Huntsville, Ala.-This invention relates to means whereby a person may be enabled conveniently and with the least possible labor to pick cotton from the pod or stalk, and place the same within a bag, the said picker and his bag being supported relatively to each other during the whole operation, while the bag is readily conveyed along from point to point without manipulation.

Improved Gas Cooking Apparatus.

Thomas Peacock, Wood Green, Eng., and John C. Peacock, Finsbury Park Road, Eng.-This invention consists in economizing the heat derived from a combustion of gas by preventing the walls, top, and bottom of stove from radiating the heat generated within the oven, and it also consists in ventilating the oven by an exact supply of air, while the products of combustion are drawn off at the lowest possible level.

Improved Bracket for Dentist's Chair.

George W. Gray, Albany, Oregon.-A slotted plate is attached to a metal plate which is attached to the chair by means of a pivot joint, so that it can be inclined in any position, carrying with it a sleeve in which slides an upright tube. The last is held as desired by a set screw. A T joint is attached to the top of the upright through by a setserter. At a particular to the provide the providet the provide the provide the provide the provide the providet the pro end of which is a ball and socket joint. The ball is clamped in the socket by a set screw. A table of any form is arranged on the arms, which extend from the stem of the ball. On this table are arranged any instruments or materials used in filling and excavating teeth. Water cups are attached by means of sliding rings. When the patient is seated, the table is adjusted by means of the various mechanisms described, to bring the instruments and materials into convenient position for use.

Improved Wheel Plow. John B. Herman, Blair, Neb.—The plow beam is connected to the bar by a universal joint, which gives it a free vertical and lateral movement, so as to allow the plow to be laterally adjusted to cut a deeper or a shallower furrow, or a wider or narrower furrow, as may be desired. There are besides novel devices which enable the plow to be readily adjusted to run deeper orshallower in the ground, and others by which the caster wheel may be readily adjusted to take the downward pressure of the plow, and thus decrease the friction and enable it to be drawn by less power, and mechanism which permits the plow to be readily lowered to and raised from the ground when desired, and holds it securely in place when suspended.

Improved Sheat Dropper for Harvesters,

Perry G. Nichols and William O. Nichols, Cresco, Iowa.-The table is proved to the frame for tilting. It has an arm extending below the pivot at one end, to which a cord is fastened, which is suitably connected with a bell crank. The last communicates with a foot treadle in front of the driver's seat, so that by a downward movement of the foot treadle a catch will be pulled back to unfasten the table, and the table will be tilted to dump the sheaves. The table will then be turned back by gravity, the weight of the next sheaf put on by the binders, and it will be fastened by a catch and spring. The catch is so arranged relatively to the binder's table that the binder next to it can reach it readily to unfasten it by hand.

Improved Peg Box for Pegging Machine.

George H. Davis, Oxford, Mass.-This invention consists of a pog box with two feed channels for stock, to makepegs of two sizes, and feed mechanism and shifting apparatus, adapted for use in connection with the pegging machine patented by C. Varney, and so arranged that the operator can shift the feed mechanism at will without interrupting the operation of the machine, to use pegs of different sizes in different parts of the work. The invention also consists of certain improvements in connection with the cutter, and an improved form of the peg driver.

Improved Compound Metal Working Machine.

George L. Jones, Vanville, Wis.-This invention relates to improvements in the compound metal working machine patented by the same inven or, under date of September 2, 1873. The punching encountered in the employment of these and other well known bat- mechanism, substantially such as previously employed, operates a supplementary punch, so that bands, tyres, etc., may be punched at certain points with large holes, and at others with small ones at the same time.

Improved Whiffletree Tug Fastener.

James L. Graff, Petrolia, Pa.-Instead of boring the whifiletrees longitudinally to receive rods, cylindrical metal caps are applied to each end of the whiffletree. A sliding rod, having a knol at one end and a plate at the other, is formed at a right angleto each cap. A short pin projects from the center of the disk in a plane parallel with the sliding rod. A bar slides in a socket formed on the rear side of the cap, while the plate projects interiorly of the socket and a pin projects through the loop formed on the end of the socket. A coiled spring is placed in the cap between the end of the whifiletree and the plate. The ends of the traces are inserted in the loops on the cap, the pins having been first drawn back into the sockets by pressure applied to the knobs, and there secured. casting the ballast ball with two holes, which intersect each other at To release the traces, the bars are drawn toward each other by rightangles at the center, one of which said holes receives the taper- cords, which are joined to a ring between centrally arranged pulleys.

Improved Soap Bubble Toy.

William A. Harwood, Brooklyn, N. Y.-This is a little tin cup with another small cup attachment on the bottom, forming an in-closed chamber, in which is a hollow cone with a hole in the top. A small tube like a pipe stem enters the chamber at the top, and there is a passage from the cup into the ch mber. There is also a small hole through the bottom of the chamber containing the cone, and around the outer edge of the bottom of this chamber is a flange projecting downward a short distance. The pipe blows along the surface of the water, and carries small quantities along with it down through the exit passage to form the bubble.

Improved Saw Gummer and Sharpener.

Henry Baughman, Dorn's Gold Mine, S. C.-This invention has for its object to improve the construction of the saw gummer for which letters patent were granted to the same inventor, February 18, 1873, and December 9, 1873. To an upright frame is bolted a block, and a support for the block, against which the straight saw is claimped to be operated upon. The inner end of this block may be inclined to one side and the other, to give a bevel to the saw teeth. The clamp, by which the saw is held, has a rabbet on its inner side for the back edge of the saw to restupon, and is so constructed that, when one tooth is gummed and the clamp allowed to drop down, the inclination of its slots will car y forward the clamp, and with it the saw. As the clamp is again raised by a lever, a tooth of the saw will eatch upon a stop attached to the block, by which the saw will be held, so that it cannot be carried back by the backward movement of the clamp, thus bringing the next tooth into position to be operated upon by the gumming wheel. Another feature is the provision of an orifice in the block for the nev escape of filings.

Improved Heat Radiator.

Owin Marrin, Brooklyn, N. Y.-This invention consists in providing the inner cone of the radiator with flexible plates projecting from its base, and arranged at suitable distances apart to regulate the size of the openings, through which the heated air, gases, and other products of combustion ascend in the flue.

Improved Saw Tooth Swage.

Alonzo G. Rouse, Jacksonville, Fla,-In using this swage, the tooth of the saw is first inserted between projections, its cdge projecting into a recess. Blows with a harmner upon the stock will cause the said projections to form small transverse grooves in the upper and lower sides of the tooth. The swage is then removed and adjusted to bring the edge of the tooth between another projection and the inclined end of a die. Hammering upon the end of the stock will thus bring the edge of the tooth to the proper form, obliterating the grooves and finishing the edge or point of the tooth.

2. When the King Basgranted a thing by law he cannot grant, he, *jure regis* 13. When henas granted that which by law he cannot grant, he, *jure regis* and for the advancement of lustice and right, may have a serie/acias to repeal his own letters patent.
And the court full due remarks that ¹⁴ If shindividual finds himself injured, either specially oras a part of the general public, it is no hardship to require thin to satisfy the Attorney General public, it is no hardship to require thin to satisfy the Attorney General thus the case is one in which the Government ought to interfere, either directly by instituting the suit, or indirectly by autorizing the use of its name, by which the Attorney General would retrain auch control of the matter as would enable him to prevent oppression and abuse in the exercise of the right to prosecute such a suit.
When Sturdevant's patent was issued, the question as to the novelty of the invention claimed by him was expressly decided by the Compissioner of Patents, and upon the relators, upon the relators, upon the allegation that there was no novelly in said invention, to proceed in the courts for the purpose of reversing these decisions.
To allow this would be practically to give an unsuccessful party objecting to a patent the right to appeal to the courts, and would seem also to purposerly or latent the right to appeal to the courts, as a general rule, in my ophino, ought, upon the relation of ''an individual who finds himself injured thereby,'' to allow as to be onclusive upon the fattorney General, as a general rule, in my ophino, ought, upon the relation of ''an individual would seemal rule, in my ophino, it to be tronght to be before me, in which the Attorney General, but his action in such cases ought to look as well to the rights of the patente as to the interests of those whos seek its cancellation.
Taking a case like the one before me, in which the attorney General, but his action in such cases ought to allow the sub to the patent, ther entee f inventi When

ence from mirassing other persons with suits for the use of his pretended invention. When fraud is alleged as a ground of suit in the name of the Attorney Gen-eral, to repeal a pattern, nothing more than to satisfy him of the existence of the fraud is necessary to the application, as such a case cannot go upon the ground that the facts disclosed to the Attorney General were not presented or passed upon by the Combrissioner of Patents. Mr. Studer ant has hive satisfactory transform for advancing the price of his per wood blanks, and that it was by an arrangement with the manufactur-ers of boots and shoes, and for their brenett: and I am further satisfied that the public interests do not require me to take any steps to vacate his patent. You will, therefore, withdraw the bill filed, and decline any further use of my name in this matter. Very respectfully, [Signed] GEORGE H. WILLIAMS, Attorney General. George P. Sanger, Esq., U. S. Attorney, Boston, Mass.

Improved Button Boot.

Edward F. Wells, New York city.-The lower portion of the overlapping flap of a button shoe is made in one piece with the quarter. A flap piece constitutes the upper part, which is sewn to the main portion, the slit extending about half way down the latnot so liable to be hurtful as an inside seam along the instep.

Improved Rotary Harrow.

William J. Murphy and William H. Cock, Murfreesborough,

Tenn.—There are two rollers, a foot in diameter, into which are screwed knives. To a cross bar is bolted another set of knives, so roll and smooth the ground in the rear of the harrow.

Improved Polishing Machine.

William S.Wood, Newtown, N. Y.-In this device motion is effected by a rotary spindle with a chuck plate, to which is attached a spring pivot carrying a box or holder for the grinding substance, in such a manner that the pressure and stroke or motion are entirely at the command of the operator.

Improved Brick Mold.

John Treadway, Haverstraw, N. Y.-This invention consists of a removable key or wedge block placed beneath the reciprocating ter. The seam, at the place where it bears inside against the leg, is plunger of the machine and above the platform, where by the amount of pressure on the brick is raised according to the quantity or condition of clay in the mold.

Improved Soap Frame.

John H. Keller, New Orleans, La.-Thisis a soap framefor forming soap blocks, constructed of iron side walls strengthened by longituarranged that their paths may be midway between the paths of the dinal re-enforcing wooden bars, and of wooden end walls bound by knives of the rollers. There is besides a roller which is designed to the vertical flanges of the side walls, the whole being firmly clamped otgether and to the bottom part.