ing hours, and together we spent twenty days on the wood work. She is to be used as a pleasure boat on the Schuylkill canal, and will carry about 30 passengers."

DECISIONS OF THE COURTS.

United States Circuit Court--District of Kentucky. PATENT BALING PRESS,-WENDELL E. KING VS. THE LOUISVILLE CEMENT COMPANY. BALLARD, J .:

PATENT BALING PRESS.—WENDELL E. KING VS. THE LOUISVILLE CEMENT COMPANY.
BALLARD, J.:
The complainant in his specifications declares that his "invention consists in the arrangement in one apparatus of two presses, which are operation of compress the bale in one compartment of the pressretrations that suming the screw in one direction to compress the bale in one compartment thereof, so and alternating action avoiding all loss of time in operating the press."
The complainant does not chain any of the separate parts of this machine. He claims only the combination of the central with a describe.
The machine used by the defendant, like that of complainants', is provided with yo hores, a screw between and extending into both boxes, and agent in the screw and the constructed any operating mission drilly as described.
The machine used by the defendant, like that of complainants', is provided with yo hores, a screw between and extending into both boxes, and agent in the vold occur to the machines have been long known, and it is hardly necessary to prove, what the testimony, how, ever, does establish, that it would occur to the machine share being achieved in outpainant's would enable him to accomptain the screw and extending into bub substitute script yer.
The question then is—the complainant's back would broduce the same results, and by an operation really similar. How and would be also be admitted to be valid, though not can be admitted to be valid.
The question then is—the complainant's patent being admitted to be called and would be admitted to be walled.
The duestion the is—the complainant's patent being admitted to be valid, though not can be defended and wold be called to a due to the parts of the combination or can be defended and wold be admitted to be valid.
The operation really similar, though some wald disguised.
The question then is—the complainant's patent being admitted to be valid.
The present by substituting, in licu of some

Inventions Patented in England by Americans. [Compiled from the Commissioners of Patents' Journal.]

From August 19 to August 21, 1873, inclusive. GAS REGULATOR, EIC .-- C. E. Seal, et al., Winchester, Va. HULLING RICE, ETC.-G. L. Squier, et al., Buffalo, N.Y. LAMP, ETC. -J. D. Whidden, et al., Chelsea, Mass. PANEL AND MOLDING MACHINE. -L. McD. Hills, New Haven, Conn. STEAM ENGINE. -G. G. Lobdell, Wilmington, Del. TRACTION ENGINE.-R. C. Parvin, Farmington, Ill., et al. TREATING FABRICS.-J. T. Waring, Yonkers, N. Y. TURPENTINE PRODUCT .- R. Lloyd, New Orleans, La.

Becent American and Loreign Zatents.

Improved Combined Spade and Fork.

Heber Stone, Galveston, Texas.—The object of this invention is to adapt a fork to be used as a spade: and it consists in a sheet metal sheath or pocket adapted to receive a fork and be secured thereto. When the fork is inserted in the sheath, a ring on the handle thereof is slipped down over projections, and thus the sheath is secured to the fork, and the same is thereby converted into a spade.

Improved Tyre Shrinker. Robert Gibbs, Spring Hill, Mo.—This invention consists in a new mode of hortening tyres by means of a slide bar gage and hook lever, which enable e work to be done very effectually as well as very quickly. Themechanism

easily and cheaply prepared, and withal not liable to get out of order.

Wood Filling. Jerome B. Dittenhaver, Chapalear, Ohio.—This invention relates to a ompound for filling wood previous to the application of paint orvarnish, nd consists in a preparation, which is entirely devoid of color and wil ot therefore change the characteristic hue of the wood, which can be pplied with an equally avorable result to all varieties, and which perme tes so thoroughly the pores and fills so completely the interstices between he fibers that a single coat of varnish or paint will be generally sufficient produce the designed outside face upon the wood.

Improved Washing Machine.

Henry H. Mercer and Samuel Mehaffey, Cambridge, Ohio.-This invention consists in a machine possessing in an eminent degree three essential elements of a good washing machine, namely : Friction, pressure, and concus sion. The lower roller being composed of polygonal rolls, each of which has an independent movement, a greater amount of friction is produced than by a cylinder composed of roundrolls. The shape of the rolls results in carrying the materials under the pressure roller, instead of drawing or pulling them under, as is the case with solid rollers composed of round rolls, thereby preventing the clothes from stretching or being torn or in anywise injuring or interfering with buttons, buckles, etc. It is also much easier to operate than any other machine now in use, as it requires less power to carry materials under the pressure roller than it does to drag or pull them under the same, by the kind of motion common to the kind of rollers now in use.

Improved Cotton Press.

Michael M. Scherer, Batesville, Ark. - This invention consists in providing with a gravitating cover the press box, and winding it up by a windlass mechanism; in supporting the follower on the outside ends of the press box upon a wheeled carriage : and finally, in the peculiar construction and

Improved Terret and Martingale Ring

John Geraghty, Jersey city, N. J.—This invention consists of a fluted roller and pawl to be used in the terrets and martingales in substitution of the ordinary check rein rings for guiding and controlling the reins; also, for aiding the driver in controlling the horse by turning freely with the rein when pulled backward by the driver, but not turning in the other direction, so that when the horse gets advantage of the driver he must also overcome the friction of the reins on the rollers.

Improved Trace Buckle.

John Kennedy, Osage Mission, Kansas, assignor to himself and John Moffit, of same place. This invention consists in a trace buckle in which the tongue is pivoted and provided with a lock. As the trace is passed for-ward the tongue enters the hole therein; and as it draws back it pulls the tongue plate into the angular recesses in the lugs of a plate, and thereby locks the same. This movement of the tongue is effected by slots in the plate. With this buckle the trace is kept straight and smooth, without cracks or wrinkles.

Combined Fender and Ash Sifting Attachment.

William C. Dobbin, Zanesville, Ohio.-This invention is a combined fender and ash sifting attachment, to be used in connection with an ordinary fireplace fregrate, for the purpose of separating the ashes from the unburnt pieces of coal that fall from the fire grate, so that the latter can be readily eplaced upon the fire freed from ashes.

Improved Car Coupling.

John Crist, Tiffin, Ohio.-This invention relates to automatic car coupings wherein the link lifts a catch hook by its own forward movement, and consists in attaching said hooks to a bar pivoted at the rear end, held down by a spring and lifted by a vertical rod. It also consists in a novel and effective mode of raising the lift rod.

Improved Cotton Bale Tie.

William J. Orr. Charlotte, N. C.-This invention relates generally to bale ties, but particularly to that class consisting of a strap of thin metal having one end turned into the form of a hook, and the other end broadened into a transversely slotted eye piece provided with a side stop at the outer end of the slot. There has been experienced, practically, with these bale ties a good deal of difficulty in turning the band after it is tightened sufficiently to secure the hook and eye together, while there is necessarily more or less play of the hook in the eye afterwards, which causes the sleeve to become displaced and the bale to become loose and even untied. The invention consists in the peculiar mode of arranging and constructing this eye piece so that it can be easily inserted within the hook of the strap and be securely held, with or without the sliding sleeve or loop which is sometimes used.

Improved Composition for Waterproofing Wall Paper. Cornelius Van Herwerden, Williamsburgh, N. Y., assignor to himself and Cornelius Jansen, of same place.-This invention has for its object to fur nish wall paper which shall be so prepared that, when applied to the wall in the ordinary manner, the papered wall may be washed, and which will leave the colors upon the paper wholly unaffected. The invention consists in first dissolving white soap in warm water. When fully dissolved, white wax and isinglass are added and the mixture stirred continuously until it . When fully cold it is ready for use. To apply the mixture, the paper is spread upon a smooth table, and the former is applied with a soft brush, care being taken to cover the paper evenly by rubbing it well with the brush. The paper is then rubbed with a dry brush to give it a gloss.

Improved Glove Fastening.

Charles H. Hall, Trenton, N. J., and Robert Knott, Brooklyn, N. Y.-This invention consists of a little bar with a series of notches in each edge and wide portions between the notches, hinged to a clip fastened to the glove at one side of the slit for the wrist, and a notched hook on a clip fastened to the glove at the other side, so arranged that it can engage the bar behind anyone of the enlargements to fasten the glove tight or loose, as may be desired. The clips by which the bar and the hook are fastened to the glove consist of thin plates of silver, gold, or any ductile metal, with spurs for med on them, to fasten them to the glove, by punching them out of the metal in the ordinary way of making such fastenings.

Improved Ice Shaving Machine.

James D. Freeman, Abbeville, Ala., assignor to himself and James Gilles pie, of same place.-This invention furnishes an improved machine for attachment to the counter in soda water and other saloons for shaving the The forward parts of the downwardly projecting sides of a hopper are cut away to allow a tumbler to be placed beneath saidhopper to receive the shaved ice. In the lower part of the hopper is placed a small cylinder, to which are secured a number of knives or cutters, rotated by a crank The piece of ice is placed in the hopper, rests upon the cylinder, and is held down by a plate which is placed upon it, and which is attached to a lever. The lever passes through slots in the hopper, and its forward end is pivoted to a plate which slides up and down in a groove. The latter plate may be raised and lowered to adjust the position of the lever and plate according to the size of the piece of ice to be operated upon. The rear end of the lever projects so that the operator can grasp it in one hand to hold the ice with the requisite pressure while he operates the crank with the other hand to shave the ice.

Improved Insect Powder Gun.

William Henry Ball, Brooklyn, N. Y .- The object of this invention is to provide a commercial package for insect powder, which may also be used as a gun or ejector for discharging the powder into crevices, etc., at the same time that the cost will not be much more than common packages. The invention consists of a cylindrical box, of light and inexpensive mate, rial, and a short piece of flexible tube joined together at one end, the paper or wood box having a cap at the other end, and, by preference, a hopper shaped bottom at the end connected to the flexible tube, with a small hole for the powder to pass from it into the said flexible tube. The latter has a small nozzle through which to eject the powder by compressing the tube. the nozzle being detachably connected so as to pack the packages economically. The hopper bottom is employed to retain the mass of the materia in the paper or wood box in which it is packed and deliver it into the flexible ejecting portion in small quantities as the box is shaken.

Improved Steering Apparatus for Vessels.

Amie Siebenthal, Vevay, Ind., assignor to himself and F. R. Dufour, of same place.—The object of this invention is to construct for river and ocean vessels an improved steering apparatus, by which the power transmitted to the rudder is equalized, and the same more fully within the control of the helmsman. The invention consists in the hinge connection of the tiller together with a supporting guide arm of the same The nearer the tiller approaches the center, the quicker turns the rudder post, so that the rudder moves rapidly when in position at either side of the axis of the vessel, where also less power is required. On the approach of the tiller to a horizontal position, the runder moves with decreasing speed but with increasing power, as the pivoted arm relieves the strain on the steering rope by supporting the end of the tiller. Improved Composition Filling for Painters. Richard Sharp, Pittsburgh, Pa.-The object of this invention is to provide for carriage manufacturers an improved "painters' rough stuff," which is put on after the paint, and leaves a smooth and solid surface after rubbing. It consists of a mixture of pulverized pumice stone and white lead, thinned by coachmaker's japan and rubbing varnish. The wood is first filled with from three to five coats of keg lead, and then coated with this surface pro tector, which causes the work to take a fine polish.

September 20, 1873.

Improved Tool for Seating Bung Buskes

Lomax Littlejohn, New York city .- This invention has for its object to furnish an improved tool for beveling the bung hole of a cask and counter sinking said hole to adapt it to receive a bung bush. The body of the tool is cash hollow, and of such a taper as will give the cesired bevel to the bung hole. In one side is formed a recess to form a seat for the knife cutter, in which, directly opposite the edge of the cutter, is a slot for the chips to escape through. Around the upper edge of the tanering body is a flange of a breadth equal to the desired breadth of the countersink of the bung bush. Upon the upper side of the flangeare for med two projections, one of which is so arranged that its face may be nearly flush with the edge of the flange, so that the cutter attached to said face and the cutting point may project below the flange to cut around the edge of the countersink. The other projection is arranged across the flange so that the cutting edge of the cutter may project through a notch in the flange to cut the countersink. Upon the upper edge of the body is formed a rigid bail, having a socket formed upon its upper part to receive a handle, by means of which the toolis operated.

Improved Saw Swage.

Andrew J. McCollum and George D. Emery, Indianapolis, Ind.-This invention consists of an improved attachment of a saw swage, by means of which the swage will be held perfectly square across the tooth, so as to make all the cutting points exactly alike, and thus enable the saw to be filed much more quickly than it could otherwise be done. The invention consists in the guide arms connected at their upper ends by a back, and pivoted to the stock of the swage. The guide arms are provided with a set screw which passes through one of said arms and screws into the other arm, so that the lower ends of the arms may be adjusted closer together or farther apart, as the thickness of the saw plate may require. By using the swage upon the teeth of a saw partly filed, and then filing the teeth by the marks of the swage, it is claimed that the saw may be filed in less than half the time that would otherwise be required.

Improved Inside Blind.

Elliott Metcalf, Rome, N. Y.-This invention has for its object to improve the construction of Venetian or inside blinds, and it consists in the arrangement of an upper roller, carrying front and rear ribbons, attached to the slats of the blind, and provided with cords for suspending the same, so as to enable the blind to be lowered and raised from the top. This, together with the angular adjustment of the slats is effected by turning the roller. The vertical movement of the slats from the bottom is accomplished by elevating cords. The invention further consists in a novel method of attaching the slat-shifting ribbons to the latter, dispensing with the use of vivets, staples, or other fastening devices, and insuring, also, a more perfect closing of the slats; and it consists in passing or looping the ribbons through slots near the edges of the slats, so that when the latter are in a vertical or closed position the edges of the same will abut more perfectly than in ordinary blinds.

Improved Paint Brush.

Amasa S. Thompson, Little Falls, Minn., assignor to himself and Louis Vasaly, of same place.—This invention is intended to furnishready and con-venient means for raising and discharging paint and similar substances, which are applied with a brush, through the brush, so that the fluid may be readilyspread by the operator. The invention consists in a rubber syringe and flexible tubes provided with suitable valves and arranged in the handle of the brush. A tube conducts the liquid from the reservoir to the appar-

Improved Plow.

Thomas G. Andrews and Andrews Riviere, Barnesville, Ga.-This invention consists in the construction of plows, so that the plow plates may be secured firmly to the standard without bolts, and in such a way as to present no unevenness for the soil to catch upon, and which will enable the plow gate to be quickly attached and detached. It consists of a lever brace, pivoted at its rear end to the slotted lower end of the plow standard, se cured at its forward end detachably to the plow beam, and provided with a shoulder or pin for securing the plow plate detachably to said standard.

Improved Spark Arrester.

Michael Zeeh, Pittsburgh, Pa.-The cinders and sparks are deflected by a inverted cone (the upper parts of the stack) drawn through a perforated flange, and ascend and pass through a circular opening and then strike a horizontal disk, and are thrown in each direction. They are still further retarded before they escape by an interior flange around the top of the hood. Before reaching this point the sparks or cinders are broken up, so that when they escape from the hood any fire which they may retain is instantly extinguished by contact with the atmospheric air.

Improved Reed Organ Swell.

John R. Lomas, New Haven, Conn., assignor to Bernard Shoninger, or ame place.—The design of this invention is to make a clear and open passage for the escape of the sound from the reeds through the case of theinstrument ; and it consists of a movable board or outside swell in the case, with a suitable connection with the ordinary swell, or the lever which operates it, to be opened by or with the said ordinary swell, and allow all the sound waves a clear, open, straight passage through the case, whereby a large gain of power is obtained without any extra exertion on the part of the player, at any desired time, giving nearly double the effect of the front reeds.

Improved Carpet Lining Machines.

John R. Harrington, Brooklyn, N. Y.-This invention relates to a combination of revolving screens, carding cylinders or scratchers, and feeding and condensing rollers, the object of which is to receive the cotton, flock, or other fibrous material from a willow or breaker, form it into a smooth lap of uniform thickness, and deliverit between sheets of cloth or paper, whichform the upper and lower surfaces of the complete fabric audconfine and secure the lap. The inventor, we believe, is the originator of carpet liningsmade with one or more continuous sheets of paper or cloth united together by mucilage or sewn. The capacity of the machines is claimed to be 5,000 yards per day. Mr. Harrington has taken several patents on the same subject, but he asserts that the invention now under consideration is preferable to any other.

Improved Railway Rail Chair.

Samuel Huber, Danville, Pa.-The main object of this invention is to prevent the ends of the rails of railroad tracks from being battered or damaged by passing trains, and it consists of a cavity or recess beneath the joint of the rails, whereby a certain degree of elasticity is allowed the ends of the rails.

Improved Manufacture of Boots and Shoes,

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location of the press box.

Improved Ice Casket.

Frederick N. Troll, Baltimore, Md.—This invention relates to burial cas-kets for preserving the bodies of deceased persons until it is convenient for their friends to bury them, and consists in providing, between the body receptacle and casket, a pipe connection through which the air may be exhausted; also, in applying a rubber lining to the inside of the casket and cover to exclude all air from the outside.

Improved Car Coupling.

E. N. Gifford, Cleveland, Ohio.-This invention is an improvement upon the coupling for which letters patent were issued to A. Pritz, March 25, 1873, and consists informing a right angled slot or recess in the side of the coupling or catch, and a right angled notch in its forward edge to adapt it to be held in place, and also guided in its movements by a short cross bolt projecting through the side of the drawhead.

Improved Paint Compound.

Charles Campbell, New York city, assignor to himself and James H Davidson, of same place. - This invention relates to a new composition for paint, whereby the paint is held perfectly in solution without settling, combining the pigment and oil, producing a glossy and consistent covering for the preservation of wood work and other bodies, and effecting a considerable saving in the pigments employed. The solution is prepared by dissolving bicarbonate of soda and borax in water. This is then mixed with dry oxide of zinc, linseed oil, and benzine, and thoroughly ground together, producing a glossy, cheap, and durable paint compound, which may be used as a base for any desired shade or tint by adding the necessary color to it. I ness of the material to be cut.

Improved Cotton Bale Tie.

William Crone, Galveston, Texas.-This invention consists of a small S shaped bar for tying the bands and cross ribs on the bands, both lower and upper sides, at short distances apart near the ends, which are fastened tother. This is effected by inserting the band in the notches of the aforesaid bar, one part on each side, in a very simple manner.

Improved Straw Cutter.

Thomas Webb, Elyria, Ohio.-This invention is an improvement in the class of straw cutters having feed rolls, one of which is adjustable vertically, and yet so geared with the stationary roller as to continue its revolution, whether they are separated by a small or large quantity or thick-

ohn Boyl orkcity.—The object of this invention is to provide an improved clamping connection of textile or other fabrics with hard and unyielding materials, as wood or composition soles, etc., so that shoes or other articles of manufacture may be produced quicker and cheaper by means of machinery, and the handlabor, hitherto necessary forsuch work, be dispensed with. The invention consists in grooving the wood sole or other material at the upper edge, and binding the fabric, by a suitably shaped metallic clamp, firmly thereon, so that a strong and intimate connection of the parts is obtained.

Improved Printing Press.

Calvert B. Cottrell, Westerly, R. L.-This invention consists in gearing he sliders with the frame of the press, also with the reciprocating type bed to maintain the proper relation of said sliders to the table at all times, and prevent the overrunning of one by the other, which now happens in consepuence of the irregular action of the bed on the sliders, caused by the press ure of the cylinder on the bed when going one way and the freedom from pressure when going the other way.

Improved Rubber Shoe.

Lewis L. Hyatt and Jared H. Canfield, New Brunswick, N. J.-This invention consists of india rubber boots and shoes, the uppers of which are made considerably thicker and stronger at the junction with the sole than at the top and in the upper portions, and gradually lessening in thickness from the bottom upward. In carrying out the invention dies, are sunk in the rolls, by which the sheets for the upper portions of the shoes are made deeper in the parts in which the lower portions of the uppers are formed than in the parts whereon the upper portions are formed, and thus the required variations in the thickness are produced at the same time that the sheets are made.