

No. 38,382. Method of Applying Celluloid to Key Boards. (*Application de la cellulose aux claviers.*)

Augustus Newell, Chicago, Illinois, U.S.A., 3rd March, 1892; 5 years.

Claim.—In the manufacture of key boards and similar articles, the process consisting of interposing an adhesive containing a latent solvent of celluloid between the inner sides of the front and top strips of celluloid and the wood, the upper edge of the front strip meeting and being pressed against the lower face of the top strip before the adhesion to the wood is effected, then applying pressure to the outer faces of said strips of celluloid, then subjecting the whole to heat while under pressure, then withdrawing the heat and restoring the whole to normal temperature, substantially as herein described.

No. 38,383. Veneering Press. (*Presse à plaquer.*)

Augustus Newell, Chicago, Illinois, U.S.A., 3rd March, 1892; 5 years.

Claim.—1st. In a veneering press, the combination of the horizontal arms A¹, arranged in line, a plate A², arranged beneath said arms, screws A³, extending upward from said plate through said arms to unequal heights, and having at their upper ends overlapping handwheels A⁴, substantially as shown and described. 2nd. The combination, with the duplex clamp arches supported in line, and having at each side the horizontal arms A⁴ and A⁵, screws A⁶, extending through said arms A⁴, toward the arms A⁵, and plates A⁷, extending beneath said screws, of a cord B, applied to each end of one of the plates A⁷, and extending over one or more rollers B¹, thence down toward the floor, thence up and over one or more rollers B², to the adjacent end of the other plate A⁷, and a weight B³, suspended from the lower portion of said cord, in such manner as that said weight may shift upon said cord, substantially as and for the purpose set forth. 3rd. In a press, a series of screws arranged in line, two plates opposite to the ends of said screws, one of said plates having an upward extension directed toward the other plate, and a series of horizontal screws opposite said extension, and in a plane passing between said plates and through said extension of one of the plates, substantially as shown and described. 4th. In a press, a series of screws arranged in line, two plates opposite the ends of said screws, one of said plates being hollow and having a hollow upward extension directed toward the other plate, and a series of horizontal screws opposite said extension, and in a plane passing between said plates and through said extension of one of the plates, substantially as shown and described. 5th. In a press, having the horizontal arms A⁴ and A⁵, the combination, with said arms, of screws A⁶, extending downward through said arms A⁴, a plate A⁷, extending beneath said screws, a plate C, located on the arms A⁵, beneath the plate A⁷, and having the upward extension C² at its rear, and the horizontal screws F, supported by the arms A⁵, and directed toward the extension C², of the plate C, substantially as shown and described. 6th. In a press, having the horizontal arms A⁴ and A⁵, the combination, with said arms, of screws A⁶, extending downward through said arms A⁴, a plate A⁷, extending beneath said screws, a plate C, located upon the arms A⁵, beneath the plate A⁷, and arranged to be moved forward upon said arms A⁵, and having the hollow upward extension C², at its rear, and the horizontal screws F, supported by the arms A⁵, and directed toward the extension C², of the plate C, substantially as described. 7th. In a press, having the horizontal arms A⁴ and A⁵, the combination, with said arms, of screws A⁶, extending downward through said arms A⁴, a plate A⁷, extending beneath said screws, a plate C, located upon the arms A⁵, beneath the plate A⁷, and having the upward extension C² at its rear, and the horizontal screws F, directed toward the extension C², and chairs F¹, through which such screws extend, seated adjustably upon the arms A⁵, substantially as shown and described. 8th. In a press, having the horizontal arms A⁴ and A⁵, the combination, with said arms, of screws A⁶, extending downward through said arms A⁴, a plate A⁷, extending beneath said screws, a plate C located loosely upon said arms A⁵, a rack E applied to the bottom of the plate C at each end, a stationary, rotary shaft E¹ extending beneath the plate C, and a spur wheel E² fixed upon said shaft E¹ beneath each rack E and meshing into the latter, substantially as and for the purpose set forth. 9th. In a press having the horizontal arms A⁴ and A⁵, the combination, with said arms, of screws A⁶, extending downward through said arms A⁴, a plate A⁷, extending beneath said screws, a plate C located loosely upon said arms A⁵, and having the upward extension C² at its rear, a rack E applied to the bottom of the plate C at each end, a stationary, rotary shaft E¹ extending beneath the plate C, a spur wheel E² fixed upon said shaft E¹ beneath each rack E and meshing into the latter, and the horizontal screws F, supported by the outer ends of the arms A⁵, and directed toward said extension C², substantially as and for the purpose set forth. 10th. In a veneering press, having the arms A⁴ and A⁵, and downward directed screws A⁶, supported by said arms A⁴, and horizontal screws F, supported by said arms A⁵, the combination with said arms and screws of a plate A⁷, extending beneath the screws A⁶ and a hollow plate C located beneath the plate A⁷, and having the hollow upward extension C², at its rear communicating with the main portion of said plate and a pipe D leading into, and a pipe D¹ leading from the interior of said plate, substantially

as shown and described. 11th. In a veneering press having the arms A⁴ and A⁵, and downward directed screws A⁶, supported by said arms A⁴, and horizontal screws F supported by said arms A⁵, the combination with said arms and screws, of a plate A⁷ extending beneath the screws A⁶, and a plate C having the upward extension C² at its rear, and a passage D² leading back and forth through the horizontal portion of said plate and thence into and longitudinally through the extension C², and induction and ejection pipes D and D¹, substantially as shown and described. 12th. The combination with the plate C having the horizontal surface and an upward extension at the rear with a vertical inner surface, of a plate lying against the inner surface of said extension and arranged to be raised to allow one edge of a sheet of veneer to enter beneath said plate, substantially as herein set forth. 13th. The combination with the hollow plate C having the horizontal surface C¹, and a hollow upward extension C², which latter has a vertical inner surface C³, of a polished plate C⁴ lying upon the surface C¹, and a polished plate C⁵, resting against the extension C², and arranged to be raised to allow one edge of a sheet of veneer to enter beneath said plate, substantially as herein set forth. 14th. The combination with the hollow plate C having the horizontal surface C¹, and the vertical surface C², of a polished plate C⁴, lying upon the surface C¹, a plate C⁵, extending from behind the rear edge of the polished plate C⁴, upward along the surface C², and supporting a polished plate C⁷, extending down to rest above the inner edge of the horizontal strip of veneer, and having a projecting lip to rest upon the upper edge of the vertical strip of veneer, and a spring or equivalent device for pressing said lip downward, substantially as and for the purpose specified. 15th. The combination, with the hollow plate C having the horizontal surface C¹, and the vertical surface C², of a polished plate C⁴, lying upon said horizontal surface, the vertical plate C⁵, extending behind the edge of the plate C⁴, and bearing the polished plate C⁷, extending downward almost to the plate C⁴, and a lip to rest upon the upper edge of the vertical strip of veneer, springs or equivalent device to press down upon said plates and lip, and a rock-shaft for controlling said springs, substantially as and for the purposes set forth.

No. 38,384. Improvements in Lining Boilers or Digesters used in the Manufacture of Paper Pulp and for other Similar Purposes. (*Perfectionnements dans le doublage des chaudières ou digesteurs en usage dans la fabrication de la pâte à papier et autres objets semblables.*)

Carl Kellner, Vienna, Austria, 3rd March, 1892; 5 years.

Claim.—The herein described methods of forming the lining for boilers or digesters used in the manufacture of paper pulp and for other similar purposes, and consisting of two cement coatings composed respectively of ground slate made into a paste with "water glass"; and Portland cement only mixed with water or with a weak solution of "water glass"; these with or without an intermediate or third coating composed of half ground slate and half Portland cement mixed with water.

No. 38,385. Carriage Gear. (*Train de voiture.*)

Joseph J. Kinsman, Tampa, Florida, U. S. A., 3rd March, 1892; 5 years.

Claim.—In a vehicle, the combination, with the axles, a bolster pivotally mounted on the centre of each axle, and a spring carried thereby and having eyes at its ends, of a clevis pivotally mounted in each of said eyes and depending therefrom, another clevis linked into the first, side bars passing loosely through the lower clevises, plates on the lower faces of the side bars pivotally connected with the lower clevises, and a wagon-body supported by the side bars, substantially as hereinbefore described.

No. 38,386. Car Brake. (*Frein de chars.*)

Anthony Benezette Pool and Joseph Jackson Beals, Boston, Massachusetts, U. S. A., 3rd March, 1892; 5 years.

Claim.—1st. In a car-brake a right and left hand worm fitted to rotate on the car body; nuts fitted to travel on said worm; means for rotating said worms from the car and connecting mechanism between said nuts and the car-brake beams, substantially as described. 2nd. In a car-brake beam, a right and left hand worm fitted to rotate on the car body; mechanism for actuating said worm from the car body; nuts fitted to travel in opposite directions on said worm; rods connecting said nuts with the car-brake beams and springs on said rods in engagement with said beams. 3rd. In a car-brake, the combination of a supplemental brake-beam; a right and left worm disposed between said beam and the main brake-beam; nuts fitted to travel on said worm; springs secured to said nuts and engaging the respective beams; and means for rotating the worm from the car body, substantially as specified. 4th. In a car-brake, a supplemental beam on the car body disposed adjacent to one brake-beam, and connected by rods with the brake-beam at the opposite end of the car, in combination with a worm rotatable from said body and connecting mechanism actuated thereby for spreading the adjacent beams. 5th. In a car-brake, a supplemental beam on the car body disposed adjacent to one brake-beam and connected by rods with the brake-beam at the opposite end of the car, in combination