and nut K, for adjusting the lower jaw, and a spring M, to keep the upper and lower sections of the stem A, in alignment, and permit the upper jaw to yield by the force of the lower jaw when taking a fresh grip of a nut, &c., as described. 4th. In a screw wrench, the upper jaw having a stem A, provided with a hinge joint H, and the lower jaw having a socket E, sleeved on said stem below the joint, and a spring M, closing the hinge joint and maintaining pressure on the upper jaw after yielding to pass the corners of a nut when the lower part of the wrench is moved in one direction to take a fresh grip of said nut, as set forth.

No. 41,792. Perpetual Calendar. (*Calendrier perpétuel.*)

William W. Kitchen, Rochester, New York, U.S.A., 2nd February, 1893; 6 years

Claim.—1st. A perpetual calendar, comprising a body having a central recess and having the names of the months arranged radially around the recess, and a centre piece held to turn in the recess, provided with a bevelled edge 14, over which the edge of said recess is upset or projected,, and having the initial letters of the days of the week produced thereon and adapted to register with the month spaces, substantially as described. 2nd. A perpetual calendar, comprising a body having a central concaved recess, and having radial spaces arranged around the recess with the months of the year produced therein, a convex bottomed centre piece held to turn in the recess, said centre piece having a bevelled edge over which the adjacent portion of the body fits, and the centre piece also having a transverse slot therein and the initial letters of the days of the week produced thereon, substantially as described. 3rd. A perpetual calendar, comprising a body having a central recess therein and having names of the months arranged in radial spaces around the central recess, the month spaces having also the dominical letters therein, and a centre piece held to turn in the recess, said centre piece having letters indicative of the days of the week thereon, substantially as described.

No. 41,793. Car Coupler. (*Attelage de chars.*)

Joseph Wilson Poston, Holly Spring, Mississippi, U.S.A., 2nd February, 1893; 6 years.

Claim.—1st. An attachment for pin and link car couplings, comprising a stationary frame adapted to be mounted on the draw head, a pin supporting shoe consisting of two spring held sliding sections normally locked in contact, and means for automatically releasing said sections when two cars come together, substantially as set forth. 2nd. An attachment for pin and link car couplings, comprising a stationary frame adapted to be mounted on the drawhead, a pin supporting shoe consisting of two spring held sliding sections normally locked in contact, catches for locking said sections, and a sliding frame adapted to automatically fall and release said catches when the two cars come together, substantially as set forth. 3rd. An attachment for pin and link car couplings, comprising a stationary frame adapted to be mounted on the draw head, and provided with guides, a pin supporting shoe consisting of two spring held sections, sliding plates carrying said sections and provided with recesses, catches adapted to engage the latter to lock said sections in contact, vertical spring held rods controlling said catches, and a sliding frame adapted to fall upon said rods when the cars come together and release the catches, substantially as set forth. 4th. An attachment for pin and link couplings, comprising a stationary frame adapted to be mounted on the drawhead, and provided with guides, a pin supporting shoe posing faces with downwardly convergent recesses, a tubular pin guide carried by said frame and arranged above the shoe, and means for automatically releasing the shoe sections when the cars come together, substantially as set forth. 5th. The combination, with a stationary frame carrying a pin supporting shoe consisting of two spring held sections, and means for locking the latter in contact, said frame being provided at each side with two outwardly projecting trunnions, of a sliding frame provided in each side respectively with a straight and a curved slot receiving said trunnions, said curved slots terminating at their lower ends in offsets, substantially as and for the purpose set forth. 6th. The combination, with a stationary frame carrying a pin supporting shoe, consisting of two spring held sections, and means for locking the latter in contact, of a sliding frame provided with a link supporter, said frame being adapted when released to release the shoe sections and carry the link supporter downwardly and inwardly, substantially as and for the purpose set forth. 7th. The combination, with a stationary frame carrying a pin supporting shoe, consisting of two spring held sections, and means for locking the latter in contact, said frame being provided at each side with two outwardly projecting trunnions, of a sliding frame provided in each of its sides respectively with a straight and a curved slot receiving said trunnions, said curved slots terminating at their lower ends in offsets, and having oppositely located offsets about midway their length, and plates pivoted at their upper ends between the straight and curved slots, and provided at their lower ends with curved recesses, the latter being adjacent to the upper end of said offsets, substantially as and for the purpose set forth.

No. 41,794. Device for Lowering Burial Caskets.

(*Appareil pour descendre les cercueils.*)

John B. Beugler, Dayton, Tennessee, U.S.A., 2nd February, 1893; 6 years.

Claim.—1st. In a device of the character described, the combination, with a beam and legs supporting the beam, of a carriage held to travel upon the beam, a spring controlled wheel journalled in the carriage, a shaft, also journalled in the carriage carrying a guide wheel fixed thereto, also a ratchet wheel rigidly secured to the shaft, and a brake wheel loosely mounted upon the shaft and provided with a pawl adapted for engagement with the ratchet, a lever controlling the brake wheel, a band attached to the spring controlled wheel, and passing over the brake wheel, a sling consisting of straps and united at its ends by bars, and a clamping device carried by the straps, and adapted for engagement with one of the bars of the sling, the strap being secured to the other bar, as and for the purpose set forth. 2nd. In a device of the character described, the combination, with a beam, legs supporting the same, and a carriage adjusting upon the beam, of a spring controlled wheel journalled in the carriage, a shaft also journalled in the carriage, a sprocket wheel secured to the shaft, a ratchet wheel fast to the shaft, a brake wheel loosely mounted upon the shaft and provided with a pawl engaging with the ratchet, a brake strap engaging with the brake wheel, a lever attached to the strap, a sling consisting of straps and united at its ends by bars, a chain attached to the spring, controlled wheel, passed over the sprocket wheel and attached to one of the bars of the sling, and a clamping device provided with a releasing slide, the slide and clamping device being adapted for engagement with the other bar of the slings, substantially as shown and described. 3rd. In a device for lowering coffins, the combination, with the lowering chains or rops, of a sling consisting of straps and bars uniting the ends on the straps, one of the bars of the sling being attached to the rope or chain, a clamping plate attached to the rope or chain, and engaging with the other bar of the sling, and a spring controlled releasing slide carried by the plate engaging with the bar of the sling with which the clamping device engages, as and for the purpose specified. 4th. In a device of the character described, the combination, with a supporting beam, legs adjustably attached to the beam, and a carriage held to travel upon the beam, of a lowering mechanism carried by the carriage, a sling consisting of straps united at their ends by bars, one of which bars is connected with the lowering mechanism, a clamping plate connected with the lowering mechanism and provided with claws or hooks to engage with the bars of the sling, and a releasing slide, spring controlled, carried by the plate, and, also, adapted for engagement with a bar of the sling, as and for the purpose set forth. 5th. In a device of the character described, the combination, with a supporting beam, legs adjustably secured to the beam, a carriage held to travel upon the beam and provided with a brake lever, a hoisting mechanism connected with the carriage, and a brake mechanism coating with the hoisting mechanism, of a sling provided at its ends with bars, one of which is connected with the hoisting mechanism, a clamping plate secured to the hoisting mechanism, and adapted for engagement with the other bar of the sling, and a spring controlled releasing slide carried by the plate, and adapted for engagement with the bar with which the plate engages, substantially as shown and described.

No. 41,795. Corset. (*Corset.*)

Lewis Schiele, New York, State of New York, U.S.A., 2nd February, 1893; 6 years.

Claim.—In a corset, the front edges of the two parts constructed each part with a stay at the meeting edge and with a second stay parallel therewith, but distant therefrom, so as to leave a flexible portion between the two stays of each part, combined with a series of studs on said flexible portion of one part and corresponding series of sockets on the said flexible portion of the other part, substantially as described.

No. 41,796. Rock Drill. (*Foret de mine.*)

Thomas Francis Farrell, Niagara Falls, New York, U.S.A., 2nd February, 1893; 6 years.

Claim.—1st. The combination, in a tripod, of the top plate, the integral bearings depending therefrom, arms pivotally and adjustably secured at one end to said bearings and at the other ends pivotally and adjustably connected to a sleeve carrying the rear leg holder, with the front leg holders pivotally and adjustably secured to projections of the arms, all arranged so that said top plate, front and rear legs are pivotally adjustable upon said arms, substantially as described. 2nd. A rock drill, combining therein a cylinder, a cylinder head secured to each end of said cylinder, the upper one of said heads being provided with a hole or recess, a drill carrying piston, adapted to move up and down in said cylinder, a drill rotating bar, a toothed wheel secured to the top of said rotating bar, a segmental shaped toothed block arranged in the hole or recess of the upper cylinder head and adapted to engage said toothed wheel. two or more pins secured to said toothed block, and adapted to operate in sockets in the upper piston head, spiral springs surrounding said pins and adapted to control said toothed block and set screws, controlling said spiral springs, all said parts being arranged and adapted to operate substantially as described and for the purposes set forth. 3rd. In a rock drill rotating device, the combination, with the cylinder, piston and cylinder head, of a rotating bar, a toothed wheel secured to the top of said bar and adapted to operate in a recess of the upper piston head, a segmental shaped toothed block arranged in said recess and adapted to engage said toothed wheel, two or more pins secured to said block and adapted to operate in sockets in the cylinder head, spiral springs surrounding said pins, and set screws