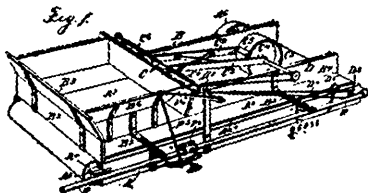
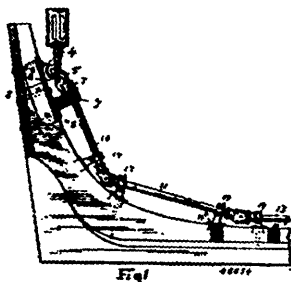


No. 44,833. Clay Tempering Machine.*(Machine à marcher la clay.)*

William F. Cook and T. M. Walker, both of Des Moines, Iowa, U.S.A., 3rd May, 1895; 6 years.

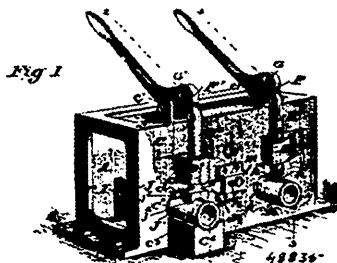
Claim.—1st. An improved clay tempering machine, comprising a suitable conveyor, a rock shaft mounted above the conveyor, one or more levers fixed thereto, a device on the end of the levers to engage the clay on the conveyor, a pipe connected with the machine and leading from a suitable source of water supply to discharge into the clay as it passes from the machine, a valve in said pipe and means connected with the said shaft for operating the valve, when the shaft is rocked, for the purposes stated. 2nd. An improved clay tempering machine, comprising a suitable conveyor, means for placing clay on one end thereof, a roller supported above said conveyor and adapted to be elevated or lowered in proportion to the thickness of the layer of clay on the conveyor, a water supply pipe adapted to discharge into the clay as it passes from the conveyor, a valve in said pipe and means for connecting said valve with said roller to open the valve as the roller is elevated and vice versa, for the purposes stated. 3rd. An improved clay tempering device, comprising a suitable frame, an endless conveyor mounted thereon, means for operating the conveyor, a rock shaft mounted in suitable bearings above the conveyor, two arms fixed thereto, a roller mounted in their outer ends, means for rotating said roller as set forth, a pipe leading from a suitable source of water supply to discharge into the clay as it leaves the conveyor, a valve in said pipe, an arm connected with said valve, a lever fixed to the aforesaid rock shaft, and a rod connecting said lever and arm, for the purposes stated. 4th. An improved clay tempering device comprising a suitable frame, an endless conveyor mounted thereon, means for operating the conveyor, a rock shaft mounted in suitable bearings above the conveyor, two arms fixed thereto, a roller mounted in their outer ends, means for rotating said roller as set forth, a pipe leading from a suitable source of water supply to discharge into the clay as it leaves the conveyor, a valve in said pipe, a segmental slotted arm fixed to said valve, a lever fixed to said shaft and a rod fixed to said lever and adjustably connected with the slotted arm, for the purposes stated. 5th. An improved clay tempering device, comprising a suitable frame, an endless conveyor mounted thereon, means for operating the conveyor, a rock shaft mounted in suitable bearings above the conveyor, two arms fixed thereto, a roller mounted in their outer ends, means for rotating said roller as set forth to normally rest upon the conveyor, a pipe leading from a suitable source of water supply to discharge into the clay as it leaves the conveyor, a valve in said pipe, a segmental slotted arm fixed to said lever and adjustably connected with the slotted arm, a hopper supported above one end of the conveyor, side boards at the sides of the conveyor and means for adjustably supporting one of said pipes above the conveyor, all arranged and combined substantially as and for the purposes stated.

No. 46,834. Boat Detaching Apparatus.*(Appareil pour détacher les bateaux.)*

Henry E. Rottmer, Washington, Columbia, U.S.A., 3rd May, 1895; 6 years.

Claim.—1st. In combination in a boat detaching apparatus, the

rotary holding and releasing device for the fall, and the means for giving the same rotary movement, comprising the continuous flexible shafting conforming at its central portion to the boat's bottom and having upturned end portions carrying the rotary devices at their upper ends, substantially as described. 2nd. In combination, a boat detaching apparatus, the continuous flexible shafting conforming to the boat's bottom, and having upturned end portions conforming to the ends of the boat, the latches pivoted at the ends of the boat and extending therefrom, and the means for retaining the said latches consisting of the rotary clutches each having an open top and an open inclined or vertical side to receive the latches, said clutches extending upwardly from the upturned ends of the flexible shaft, substantially as described. 3rd. In combination, in a boat detaching apparatus, the flexible shaft conforming to the boat's bottom, and having upturned ends conforming to the ends of the boat, the latches pivoted to the ends of the boat, and extending downwardly from the pivotal points, said latches having offset bearing shoulders for the fall hook at a point below the said pivot, whereby the strain of said hook is longitudinally of the latch toward the pivot, and the means for retaining the latch against lateral movement, consisting of the rotary clutches on the upturned ends of the flexible shafting, substantially as described. 4th. In combination, in a boat detaching apparatus, the rotary holding and releasing devices for the fall, the continuous flexible shafting having upturned ends to connect with the rotary holding devices, and a central portion conforming to the boat's bottom, the pinion on said central portion, the segment operating laterally of the boat and meshing with the pinion and the means for operating the segment, substantially as described. 5th. In combination, in a boat detaching apparatus, the rotary holding and releasing devices for the fall, the continuous flexible shafting having upturned ends to connect with the rotary holding devices, and a central portion conforming to the boat's bottom, the pinion on said central portion, the segment operating laterally of the boat and meshing with the pinion and the means for operating the same from the ship's deck, substantially as described. 6th. In combination, the releasing devices at the ends of the boat, the shafting between said devices, the pivoted lever for operating the shafting adapted to be turned down within the boat, and the pivoted guide bar for the lever, substantially as described.

No. 48,835. Machine for Forming Stovepipe Joints.*(Machine pour former les joints de feuilles de tuyaux.)*

Josiah Edward Smiley, Smiley, Ohio, U.S.A., 3rd May, 1895; 6 years.

Claim.—1st. In a machine for the purposes described, the combination with the main frame, a vertically movable plunger having a female die at the bottom, said frame having a bed plate formed with a female die portion, said frame having an aperture between the plunger and bed plate, of a pivoted member having its front end passed through the said opening between the plunger and bed plate said end having male die portions, and the lever mechanism connected with the plunger, all arranged substantially as shown and described. 2nd. In a machine as described, the combination with the main frame, the plunger E' and the lever mechanism, said main frame having an opening C' of the bed plate C', the pivoted member J, having its front end projected through the said opening and extended between the plunger E' and the plate C', said member J having a transverse recess J', the housing N, and the arm M adjustably held therein and projected to engage the recess J' when moved outward, all arranged substantially as shown and for the purposes described. 3rd. An improved machine for the purpose described, comprising a frame, a fixed mandrel having a female cutting die on its upper face, a vertically movable mandrel having male dies on its upper and lower faces, a bed plate having a female die on its upper face, plungers vertically movable over the mandrels having female die members, and lever mechanism for operating the plungers, all arranged substantially as shown and described.