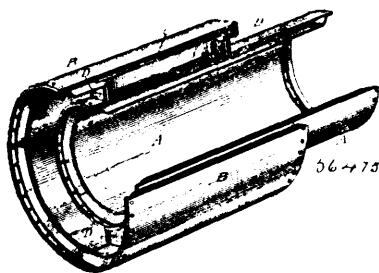


the rigid friction block adjacent to said sheave against which the rope is adapted to lie, and the catch adjacent to said block for locking the rope against the face thereof. 2nd. In a pulley block, the combination with the shell, of the sheave journaled therein, the rope passing over said sheave, the rigid friction block adjacent to said sheave but independent thereof and lying between the lines of rope passing over the sheave, said block having grooved ends which receive said rope, and the locking cams pivoted adjacent to the ends of said block to lock the rope against the face thereof. 3rd. In a pulley block, the combination of the opposed plates forming the shell of the block, the sheave journaled between said plates, the rope passing over said sheave, the friction block interposed between said plates adjacent to the sheave, the gravity locking cams pivoted between said plates adjacent to the end of the friction block, the cords attached to one side of said cams and passing upward through an eye in one of said plates, thence downward within the reach of the operator. 4th. In a pulley block, the combination of the opposed plates forming the shell of the block, said plates having laterally extending wings, the sheave journaled between said plates adjacent to and below said sheave, the gravity pawls pivoted between the lateral wings of said plates adjacent to the ends of said friction block, said cams being so hung that the high point of one swings toward and from said friction block in the upper arc of a circle, while the other cam swings toward and from the opposite end of said block in the lower arc of a circle. 5th. In a pulley block, the combination of the opposed plates forming the shell of the block, the sheave journaled between said plates, the rope passing over said sheave, the opposed locking cams journaled between the side extensions of said plate, and the interposed friction block located between said cams, the ends of which block extend beyond the line of the periphery of said sleeve. 6th. In a tackle block, the combination of the opposed plates, the sheave journaled between said plates, the rigid friction block adjacent to said sheave and lying between the lines of rope passing thereover, said block having a curved and grooved end, the gravity cam located adjacent to the end of said block, said cam having diagonal grooves in the engaging face thereof.

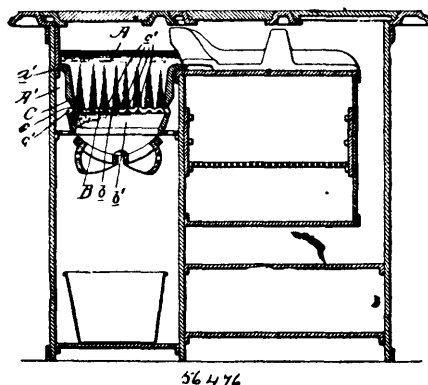
No. 56,475. Boiler. (Chaudière.)



The New York Central Iron Works Company, assignee of George W. Johnson, both of Geneva, New York, U.S.A., 3rd July, 18 97; 6 years. (Filed 4th June, 1897.)

Claim.—1st. A boiler consisting of two annular shells arranged one within the other with their water spaces connected, the inner shell projecting at one end, and the outer shell projecting at the opposite end, substantially as and for the purpose set forth. 2nd. A boiler consisting of two shells within the other, the two shells having their water spaces connected at opposite sides by oblong openings, and the inner shell being provided with an opening to serve as a direct draft passage, substantially as shown and described.

No. 56,476. Fire-box Lining. (Doublures pour boîtes à feu.)

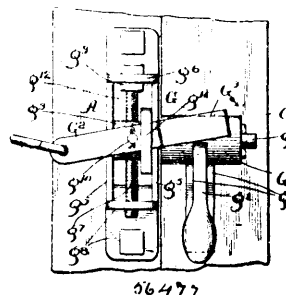


The Buck's Stove and Range Co., assignee of William Thompson, both of St. Louis, Missouri, U.S.A., 3rd July, 1897; 6 years. (Filed 4th June, 1897.)

Claim.—1st. A fire-box lining having one or more openings therein, and provided with a shoulder or lip above said openings. 2nd. A fire-box lining provided with a shoulder or lip on its inner edge, and perforations or openings which open downwardly below said shoulder. 3rd. A fire-box lining having an outwardly extending flange at its upper edge, a cut-away portion at the lower edge of the inner face forming a shoulder or lip and an inclined face below said shoulder, and apertures opening into the fire-box below said shoulder. 4th. The combination with the side walls of the combustion chamber, of a fire-box lining spaced from said side walls, said lining having a lip or shoulder on its inner face, and openings beneath said shoulder, substantially as described. 5th. The combination with the side walls of the combustion chamber, of a fire-box lining spaced from said side walls, said lining having apertures or openings therein, lips or shoulders above said openings, and an inclined face below said shoulders or lips, substantially as described.

No. 56,477. Gate Latch and Operating Device.

(Loquet pour portes.)



Theodore Smith, Georgetown, Illinois, U.S.A., 3rd July, 1897; 6 years. (Filed 5th June, 1897.)

Claim.—1st. A latch for gates comprising a bracket supported upon a suitable post, an oscillating latch pivoted in said bracket, a roller journaled upon the gate and resting upon the bracket when in a closed position, an unlocking lever adapted to depress the latch, in combination with an operating lever E, and means for connecting the unlocking lever with the operating lever. 2nd. A latch for gates comprising a supporting bracket, an oscillating latch pivoted thereto, a roller journaled upon the gate, an unlocking lever adapted to depress said latch in combination with means for operating the unlocking lever. 3rd. A latch for gates comprising a bracket, a weighted latch pivoted upon said bracket, a roller adjustably secured to the gate, an unlocking lever adapted to depress said latch, in combination with means for operating said unlocking lever. 4th. A latch for gates comprising a bracket, a weighted latch pivoted thereto, a roller resting upon said bracket when the gate is in a locked position, a bracket upon the end of the gate adjacent to the latch supporting said roller, an adjusting screw supported upon the gate and adapted to raise and lower said bracket and an unlocking lever pivoted upon said bracket and adapted to depress the latch and allow the roller to freely pass by. 5th. In a latch for gates, the combination with a supporting bracket, a weighted latch pivoted thereto, a roller resting upon the bracket when in a closed position, a bracket upon the end of the gate adjacent to the latch supporting said roller, a plate secured to the gate and having ears extending therefrom, an adjusting screw loosely resting in said ears and connecting the bracket with said ears whereby said bracket may be adjusted vertically, an unlocking lever pivoted upon the bracket and normally resting upon the latch, and means for oscillating the lever and depressing the latch, substantially as described. 6th. In a device of the class described, the combination with a weighted latch pivoted to a suitable support and lying in the path of the locking roller, a bracket having suitable dove-tailed edges, a supporting plate secured to the gate and having tongues fitted in said edges, an adjusting screw connecting said plate with the bracket, a roller journaled upon said bracket, an unlocking lever pivoted upon the bracket and adapted when oscillated in one direction to depress the latch and suitable means for operating said locking lever, substantially as described. 7th. In a device of the class described, the combination with a suitable latch having an unlocking lever, of a bell-crank lever pivoted upon a suitable support, a guide located upon the gate and having a suitable slot, a rod secured to the free end of one of the arms of the bell-crank lever and having its end bent downward and sliding in said slot, and a rod connecting said downturned end with the unlocking lever, substantially as and for the purpose set forth. 8th. In a device of the class described, the combination with a suitable latch having an unlocking lever, of a bell-crank lever pivoted to a suitable support, a guide located upon the gate and having a suitable slot, a rod secured to the free end of the arms of the bell-crank lever and having its end bent downward and guided in said slot, a rod connecting the downturned end with the unlocking lever, a suitable turn-buckle upon said rod for adjusting the length of the same, an operating lever E, and a wire connecting it to the free end of the other arm of the bell-crank lever, substantially as described. 9th. In a device of the class described, the