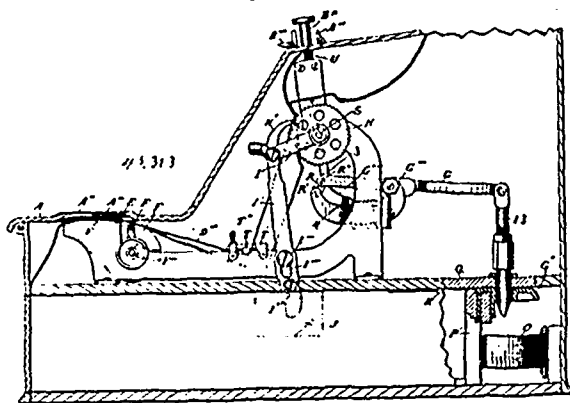


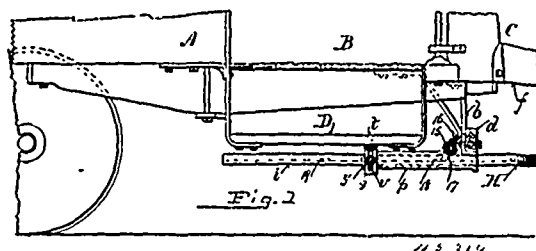
by the movement of the drawer, for the purpose specified. 2nd. The combination of a drawer, a plurality of paper strips adapted each to receive a column of figures, and suitable mechanism for con-



necting any one of such spools to the movable drawer whereby it may be moved independently of the other spools, for the purpose specified. 3rd. The combination of a movable drawer, a plurality of spools for containing paper strips, plurality of strips and a plurality of finger-bars, each bar adapted to make suitable mechanism between the drawer and one of the spools, thereby advancing a single strip of paper independently, substantially as described. 4th. The combination of a movable drawer, a case supporting said drawer, a plurality of spools bearing paper strips, a plurality of finger-bars, a plurality of finger bars, a locking-dog and connecting mechanism whereby the depression of any one of the finger-bars unlocks the dogs and allows one of the spools to be advanced with its paper strips independent of the other spools, for the purpose set forth. 5th. The combination of a case, a movable drawer, a plurality of spools, a plurality of paper strips supported by the spools, a plurality of finger bars, a locking-dog and mechanism for advancing the spools operated upon the depressed finger-bar independently of the other spools, for the purpose specified. 6th. The combination of a supporting case, a movable drawer, a plurality of spools supported loosely upon the shaft, a shaft supporting such spools, and a plurality of finger-bars, each bar adapted when depressed to attach rigidly its corresponding spool to the shaft, for the purpose specified. 7th. The combination of a supporting case, a movable drawer a plurality of spools mounted, when in normal position, loosely upon a shaft, a revolving shaft, a plurality of finger bars, each bar when depressed attaching its corresponding spool to the shaft so that such spool will revolve with such a shaft, and suitable mechanism operated upon by the drawer to give an intermittent movement to the shaft and attached spool, for the purpose specified. 8th. The combination of a movable drawer, a plurality of spools, a plurality of strips supported by such spools, a shaft upon which the spools are loosely supported, a locking-dog, a plurality of finger-bars, each bar provided with suitable bearing whereby the depression of any one of the finger bars unlocks the dog allowing the drawer to be opened, and immediately preceding the unlocking of the dog, attaches its corresponding spool to said revolving shaft, whereby the spool is advanced for the purposes specified. 9th. The combination of a supporting case, a movable drawer, a plurality of spools normally loosely supported upon a shaft, a pivoted-dog, a plurality of finger-bars, each bar adapted as it is depressed, to unlock the dog and to connect its corresponding spool to the shaft, a ratchet-wheel upon said shaft, a pawl adapted to engage with the said ratchet-wheel, a cam on the drawer, and a push-rod moved by said cam to give an intermittent movement to the shaft for the purpose of advancing one of the paper strips, substantially as described. 10th. In combination with a pivoted-dog, substantially as described, a locking-bar having a plurality of lugs, a plurality of finger-bars, each bar adapted to depress the front end of the locking-dog, a locking-plate having a smooth surface, as G^{11} , adapted to hold the dog unlocked and a depressed finger-bar in its depressed condition, while the surface is moved beneath the rear end 13, of the locking-dog, substantially as and for the purpose specified. 11th. In combination with a pivoted locking-dog, a movable drawer, a plurality of spools, a plurality of paper strips, a shaft upon which said spools are loosely supported, mechanism for attaching any one of said spools independently to the shaft, and mechanism for revolving the shaft by the opening of the drawer, substantially as described. 12th. The combination of a movable drawer, a plurality of independently moving spools, each spool supporting a strip of paper, a shaft upon which such spools are loosely supported, means for attaching said spools severally to said shaft, a locking-dog, means for locking said dog, a spring adapted to move the drawer outwardly as soon as released by the dog, a ratchet-wheel on said shaft, a pawl engaging with said ratchet-wheel, supporting mechanism for said pawl, and a cam on the moving drawer adapted to operate said pawl mechanism, and give an intermittent movement to the shaft and to the paper spools attached rigid thereto, for the purpose described. 13th. The com-

bination of a movable drawer, a supporting case, a pivoted-dog, a plurality of paper supporting spools loosely supported on a revolving shaft, a plurality of finger-bars adapted severally to temporarily connect one of the spools rigid with the shaft, and to unlock the locking-dog, a locking-bar having a plurality of locking-lugs, a locking-plate having a surface as G^{11} , adapted to retain the dog out of locking position, and a locking-bar in locking position during the movement of the plate G^{11} , beneath the end 13, of the dog G , substantially as described. 14th. In a manual recorder and cash drawer, the combination of a revolving shaft, a plurality of rollers supported thereon, a plurality of cones, one for each roller rigid with the shaft, a plurality of adjusting nuts, one for each cone, a plurality of cone keys, each key provided with a wedge-shaped projection and an abutting surface on each roller with which the incline or wedge-shaped portion of the key engages, all so combined that the depression on each key will attach its corresponding roller to its corresponding cone and thereby to the shaft, substantially as and for the purpose described. 15th. The combination of a shaft, a plurality of rollers supported on said shaft, a plurality of cones rigid with the shaft, one for each roller, an adjustable nut for each cone, suitable mechanism for adjusting such nut, a plurality of keys each having a wedge-shaped projection, an abutting surface on each roller with which the key engages in its downward stroke, whereby the downward movement of the key attaches its corresponding roller to its corresponding cone and thereby to the shaft, substantially as described. 16th. The combination of a shaft, a plurality of rollers supported on said shaft, a plurality of cones attached to the shaft, an adjusting nut on each cone, a plurality of keys each provided with a wedge-shaped projection, an abutting surface on each roller with which its corresponding key engages in its downward stroke, an arm or lever connected to the adjusting nut, and a series of stops or notches adapted to engage said lever and retain the same in its adjustment, substantially as described.

No. 45,314. Car Fender. (*Défense de chars.*)



Louis Pfingst, Boston, Massachusetts, U.S.A., 13th February, 1894; 6 years.

Claim.—1st. A car fender, comprising a platform fitted to slide in ways longitudinally of the car and be projected beyond the car dasher, substantially as described. 2nd. In a car fender, the combination, with ways supported from the car body of a platform fitted to be moved in said ways, and mechanism for locking said platform when projected beyond the car dasher, substantially as described. 3rd. A car fender, comprising a horizontally arranged platform fitted to slide in ways longitudinally of the car and be projected beyond the car dasher. 4th. In a car fender, the combination of ways supported from the car body with a horizontally arranged platform fitted to slide in said ways longitudinally of the car and mechanism for locking said platform when projected beyond the car dasher. 5th. A car fender, comprising a rectangular frame arranged horizontally and fitted to slide longitudinally of the car below its platform and a netting or screen on said frame. 6th. The combination of the car provided with ways p , with the rectangular platform h , having the elongated side-bars i , fitted to slide in said ways. 7th. The combination of the car, provided with horizontal ways under its platform, a movable platform fitted to slide in said ways longitudinally of the car, and a dog for locking said platform when projected or housed, substantially as described.

No. 45,315. Water Heater. (*Calorifere.*)

William S. Reed, Marshalltown, Iowa, U.S.A., 13th February, 1894; 6 years.

Claim.—1st. A water heater, consisting of a boiler, inlet and outlet water pipes, and a casing surrounding said pipes and boiler, forming a flue, substantially as described. 2nd. A water heater, consisting of a boiler, inlet and outlet water pipes, the inlet pipe leading into the upper end of said boiler, and extending downward to near the bottom thereof, and a casing surrounding said pipes and boilers forming a flue, and having a bottom with an opening therein, substantially as described. 3rd. A water heater, consisting of a boiler, water inlet and outlet pipes, a casing forming a flue surrounding said boiler and pipes, the latter extending alongside said boiler and a blow-off cock for said boiler, the bottom of said casing having an opening therein, said parts being combined, substantially as described. 4th. A water heater, consisting of a boiler, water inlet and outlet pipes, a casing with a bottom through which said pipes