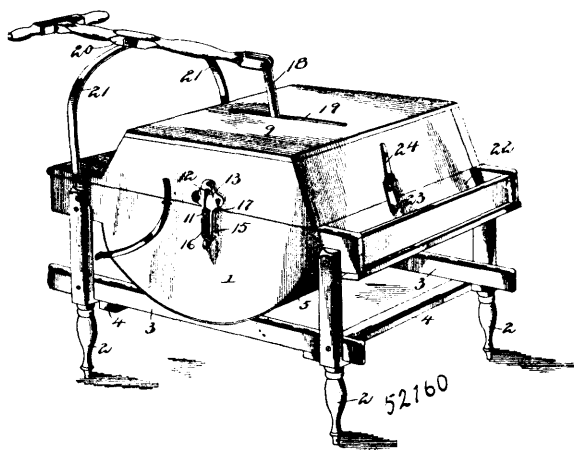


closing devices, a bar connected to the piston, having a tripping lug therein, an operating lever for the valve and a pivoted pawl thereon in the path of the lug, substantially as described.

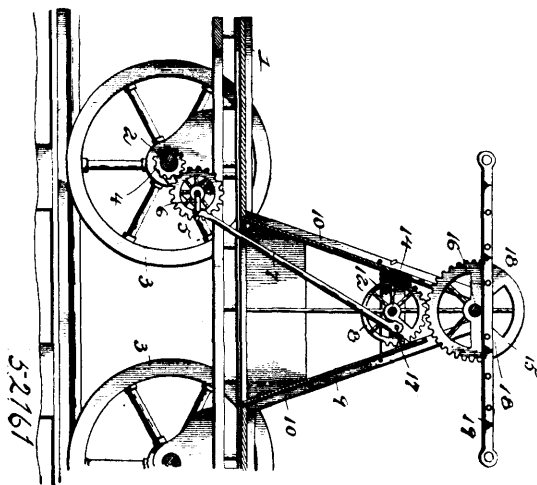
**No. 52,160. Washing-Machine. (Machine à laver.)**



James H. Lamson, Streator, and William A. Bass, Pow Pow, both of Illinois, U.S.A., 5th May, 1896; 6 years. (Filed 2nd April, 1896.)

**Claim.**—In a washing-machine, the combination of a washing-machine body, a hinged cover, bearing-brackets secured to the cover at the sides thereof comprising a plate having a vertical bearing-opening a flange 14 surrounding the bearing opening and arranged at the inner side of the plate, and a depending rigid arm 15 formed integral with the plate and provided at its lower end with an outwardly extending lug, the journals arranged in the bearing-openings and provided at their outer ends with upwardly extending lugs and having at their inner ends arms 10, an oscillating rubber secured to the arms 10 and carried by the cover and adapted to be swung backward with the same, and the spiral springs provided at their ends with loops receiving the journals and the outwardly extending lugs of the arms 15, substantially as and for the purpose described.

**No. 52,161. Hand-Car. (Char à bras.)**

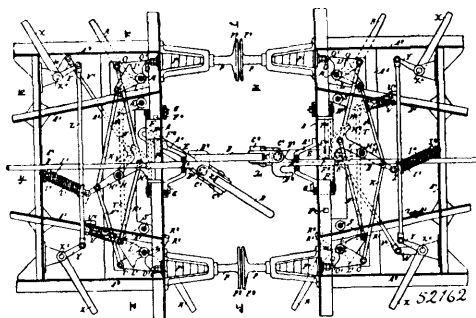


William H. Saladee and George P. Parks, both of Bedford, Indiana, U.S.A., 5th May, 1896; 6 years. (Filed 4th April, 1896.)

**Claim.**—In a hand-car, the combination with a frame and car-wheels supporting the frame, of a supporting frame mounted on the hand-car frame and provided at its corners with posts, bearings at the upper ends of the posts and located at the sides of the supporting-frame, a lower segmental gear-wheel journaled in the supporting frame, a transverse shaft mounted in the sectional bearings, and an upper segmental gear-wheel mounted on the said shaft and meshing with the lower segmental gear-wheel, an operating handle provided with a central opening receiving the upper segmental gear-wheel and secured to the same, said operating lever being provided with a removable section 21, recessed intermediate of its ends and co-operating with a similar recessed-portion of the body of the lever to form the opening thereof and having its ends secured to the body of the lever, a pitman connected with the lower segmental gear-wheel,

and gearing for connecting the lower end of the pitman with the car-wheels for rotating the same, substantially as described.

**No. 52,162. Car-Coupler. (Attelage de chars.)**



Julius Wagner, Aschersleben, and Franz Jordan, Cöthén in Anhalt, both in Germany, 5th May, 1896; 6 years. (Filed 7th April, 1896.)

**Claim.**—1st. In a car-coupling, the combination with a draw-bar, and a loop hinged thereto and swinging round an axis for engaging a hook and having an arm, of a carriage moving to and fro at the car frame for turning said loop by means of its arm, substantially as set forth. 2nd. In a car-coupling, the combination with a draw-bar, and a loop hinged thereto and swinging round for engaging a hook and having an arm, of a carriage moving to and fro at the car frame for turning said loop by means of its arm, substantially as set forth. 3rd. In a car-coupling, the combination with a draw-bar having a hook and an eye, of a loop hinged to said eye and swinging round a vertical axis for engaging a hook and having an arm, and a carriage moving to and fro at the car frame for turning said loop by means of its arm, substantially as set forth. 4th. In a car-coupling, the combination with a draw-bar having a hook and an eye, of a loop hinged to said eye and swinging round a vertical axis for engaging a hook and having an arm, and a carriage moving to and fro at the car frame for turning said loop by means of its arm, substantially as set forth. 5th. In a car-coupling, the combination with a draw-bar having a hook and an eye, of a loop hinged to said eye and swinging both round a vertical and round a horizontal axis and arranged for engaging an opposite hook and having an arm, and a carriage moving to and fro at the car frame for turning said loop by means of its arm, substantially as set forth. 6th. In a car-coupling, the combination with a draw-bar having a hook and an eye, of a knuckle hinged to said eye and swinging round a vertical axis, a loop hinged to said knuckle and swinging round a horizontal axis and arranged for engaging an opposite hook and having an arm, a slotted spring hinged to the arm of said loop, means for adjusting said loop in its horizontal position, and a carriage moving to and fro at the bottom face of the car frame and having a pin, of a draw-bar having a hook and an eye, a knuckle hinged to said eye and swinging round a vertical axis, a loop hinged to said knuckle and swinging round a horizontal axis and arranged for engaging an opposite hook and having an arm, a slotted spring hinged to the arm of said loop and bearing against said carriage, whereby said loop is held in the proper horizontal position, while said pin of said carriage engages in the slot of said slotted spring for turning said loop round the vertical axis of said knuckle, substantially as set forth. 7th. In a car-coupling, the combination with a carriage moving to and fro at the bottom face of the car frame and having a pin, of a draw-bar having a hook and an eye, a knuckle hinged to said eye and swinging round a vertical axis, a loop hinged to said knuckle and swinging round a horizontal axis and arranged for engaging an opposite hook and having an arm, a slotted spring hinged to the arm of said loop and bearing against said carriage, whereby said loop is held in the proper horizontal position, while said pin of said carriage engages in the slot of said slotted spring for turning said loop round the vertical axis of said knuckle, substantially as set forth. 8th. In a car-coupling, the combination with a carriage moving to and fro at the bottom face of the car frame and having a pin, of a draw-bar having a hook and an eye, a knuckle hinged to said eye and swinging round a vertical axis, a loop hinged to said knuckle and swinging round a horizontal axis and arranged for engaging an opposite hook and having an arm, a slotted spring hinged to the arm of said loop and bearing against said carriage, and means for adjusting said slotted spring, whereby said loop is held in the proper horizontal position, while said pin of said carriage engages in the slot of said slotted spring for turning said loop round the vertical axis of said knuckle, substantially as set forth. 9th. In a car-coupling, the combination with a carriage moving to and fro at the bottom face of the car frame and having a pin, of a draw-bar having a hook and an eye, a knuckle hinged to said eye and swinging round a vertical axis, a loop hinged to said knuckle and swinging round a horizontal axis and arranged for engaging an opposite hook and having an arm, a slotted spring hinged to the arm of said loop and bearing from below against said carriage, and an adjusting screw spindle arranged in said loop arm and bearing against said slotted spring, whereby said loop is held in the proper horizontal position, while said pin of said carriage engages in the slot of said slotted spring for turning said loop round the vertical axis of said knuckle, substantially as set forth.