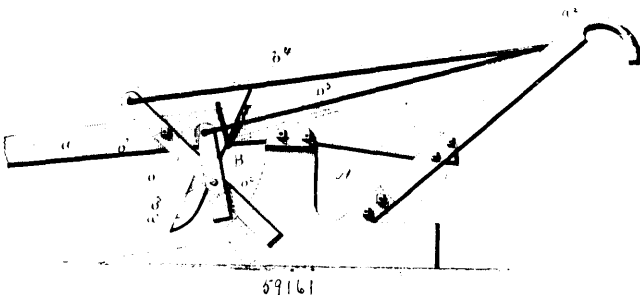


grooved face of the arm on the other plate, and a key or pin fitted in coincident grooves of the abutting faces of said arm and the adjustable nut, as and for the purposes described. 4th. As a new article of manufacture, an ice creeper appliance consisting of plates having integral calks at intervals along their lengths and sockets at the ends of said plates, and insertible calks adapted to be fitted in said sockets of the plates, as and for the purposes described. 5th. As a new article of manufacture, an ice creeper appliance consisting of cast steel plates provided at their ends with sockets and at intervals along their lengths with integral hardened and tempered calks between said sockets, and insertible steel calks fitted in said sockets, for the purposes described, substantially as set forth. 6th. The combination of creeper plates provided with elongated flared sockets, a single bolt having its ends fitted in said sockets to have long bearings therein, and means for holding the bolt rigidly connected to said plates, as and for the purposes described. 7th. The combination with creeper plates, of a single transverse bolt connected to both plates by long bearings which permit the plates to lie one slightly in advance of the other, and means for connecting said bolt rigidly to both plates, as set forth. 8th. The combination of a creeper plate having a calk socket, an insertible headed calk fitted in said socket, and washers fitted on the calk below its head and arranged in the socket of the plate, as and for the purposes described. 9th. The combination of creeper plates, each having at its ends the calk opening and the cavities in the upper face of said plates, the headed calks fitted in said openings, the washers fitted on the calks and in the cavities of said plates, and a bolt connected rigidly to the plates, substantially as and for the purposes described. 10th. The creeper plates having calk openings at their ends, the integral calks between said openings, and the transverse flared sockets, and the insertible calks and washers fitted in said openings in the ends of said plates, combined with a single bolt fitted at its ends in the flared sockets of said plates and connected rigidly, but detachably, to one plate, and an adjustable nut fitted on the bolt and adapted to be fastened to the other plate, as and for the purposes described.

No. 59,161. Plough Cleaner. (Nettoyeur de charrue.)

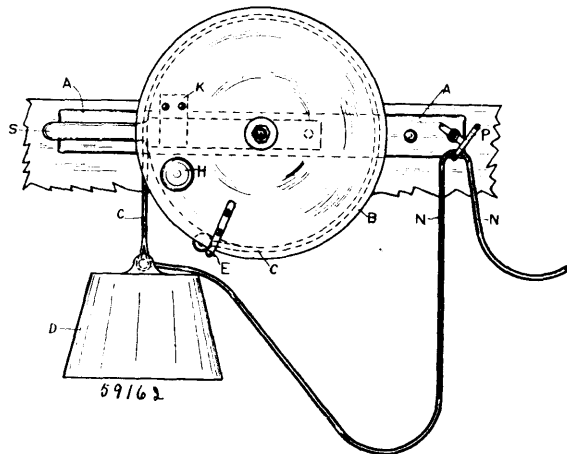


Walter Shiers, Melbourne, Ontario, Canada, 26th February, 1898; 6 years. (Filed 12th February, 1898.)

Claim.—1st. The combination with a plough, of a long bar pivotally secured to the beam of said plough, a short bar pivotally connected to said long bar, and rods pivotally connected to the upper ends of said long bar and said short bar, and extending rearwardly, the free ends of said rods being held in position at a point in juxtaposition to the handles of said plough. 2nd. The combination with a plough, of a long bar pivotally secured to the beam of said plough, a short bar pivotally connected to said long bar, at a point below the pivotal connection of said long bar to said beam, and operating rods pivotally connected to said bars, and extending rearward in juxtaposition with the handles of said plough.

No. 59,162. Horse Tie.

(Appareil à attacher les chevaux.)



George Young, Byckman's Corners, Ontario, Canada, 26th February, 1898; 6 years. (Filed 24th January, 1898.)

Claim.—1st. A horse tie of the character described, consisting of a grooved wheel journaled on a plate secured to a side of a buggy or waggon, a band around said wheel with end attached thereto, a weight secured to lower end of said band, a cord attached to said weight and to the horse's mouth, a handle on the wheel and a stop on the inner side thereof to engage with a spring capable of retaining and releasing said wheel, as described. 2nd. A horse tie of the character described, consisting of a plate secured to a side of a buggy or waggon, a grooved wheel journaled on the plate, a band around the wheel with end secured thereto, a weight at lower loose end of said band, a handle on the wheel, to raise or lower said weight, a spring to engage with a stop on the wheel, to retain the same when the weight is raised, and a cord secured to the weight and passing through an adjustable eye and fastened to the horse's mouth, as described.