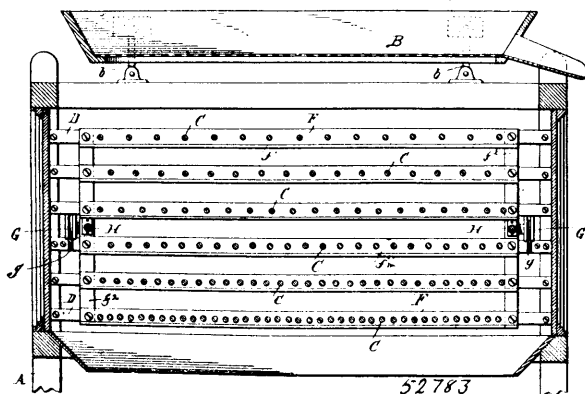


ally connecting the spaces above said dash plates with the lower part of the evaporating chamber, a catch all at one side of the evaporator and connected therewith, a condenser connected with said catch all, and a vacuum pump connected with said condenser for maintaining a vacuum in the apparatus, substantially as set forth. 5th. An evaporating apparatus, consisting of an evaporating chamber, a steam drum in said evaporator, a salt chamber beneath said drum, a door for said salt chamber, two or more dash plates within the evaporator, the openings in said dash plates being so arranged as to interrupt the free passage of the vapours, and return pipes connecting the spaces above said dash plates with the lower part of the evaporating chamber, whereby the vapours condensed on said dash plates will be returned for re-evaporation, substantially as set forth. 6th. An evaporating apparatus, consisting of an evaporating chamber, a steam drum in said evaporator, a salt chamber beneath said drum, a door for said salt chamber, two or more dash plates within the evaporator, the openings in said dash plates being so arranged as to interrupt the free passage of the vapours, and independent return pipes placed externally leading from the spaces above said dash plates into the lower part of the evaporator, for the purpose mentioned, substantially as set forth. 7th. An evaporating apparatus, consisting of an evaporating chamber, means for heating the liquid therein, a dash plate mounted in said evaporator, an opening in said dash plate, a pipe extending up from said opening, and a curved pipe at the upper end of said pipe, the mouth of said curved pipe being adjacent to the interior wall of the evaporator, substantially as set forth. 8th. An evaporating apparatus, consisting of an evaporating chamber, means for heating the liquid therein, two or more horizontal dash plates arranged one above the other in said evaporator, the openings in said dash plates being so arranged as to interrupt the free passage of the vapours, pipes extending up from said openings with the upper open ends adjacent to the dash plates immediately above the same, and a curved pipe on the end of the upper pipe, the mouth of said curved pipe being adjacent to the interior walls of the evaporator, substantially as set forth. 9th. An evaporating apparatus, consisting of an evaporating chamber, means for heating the liquid therein, two or more dash plates within the evaporator above the level of the liquid therein, the openings in said dash plates being so arranged as to interrupt the free passage of the vapours, return pipes *r, r, r*, leading from the spaces above said dash plates, a pipe *w* with which the pipes *r* are connected, a screw plug *x* in the pipe *w*, a pipe *u* leading into the lower part of the evaporator, and a pipe *z* connecting the pipes *w* and *u*, substantially as set forth. 10th. An evaporating apparatus, consisting of an evaporating chamber, means for heating the liquid therein, two or more dash plates within the evaporator above the level of the liquid therein, the openings in said dash plates being so arranged as to interrupt the free passage of the vapours, return pipes *r, r, r*, leading from the spaces above said dash plates, a pipe *w* with which the pipes *r* are connected, a pipe *u* leading into the lower part of the evaporator, a pipe *z* connecting the pipes *w* and *u*, and a catch all to one side of the evaporator and connected with the same, substantially as set forth. 11th. An evaporating apparatus, consisting of an evaporating chamber, means for heating the liquid therein, two or more dash plates within the evaporator above the level of the liquid therein, the openings in said dash plates being so arranged as to interrupt the free passage of the vapours, return pipes *r, r, r*, leading from the spaces above said dash plates, a pipe *w* with which the pipes *r* are connected, a pipe *u* leading into the lower part of the evaporator, a pipe *z* connecting the pipes *w* and *u*, a vertical catch all drum *N* to one side of the evaporator and connected therewith, a pipe *O* extending into said catch all drum with its upper open end above the vapour pipe from the evaporator, and with its lower end connected with a condenser, and a pipe *a'* connecting said condenser with the pipe *u*, substantially as set forth.

No. 52,783. Corn Silking Machine.

(Machine à éplucher le blé-d'inde.)



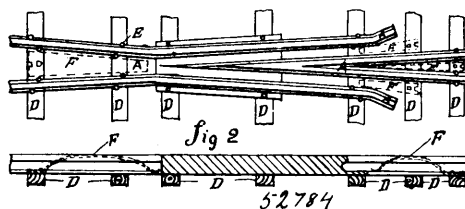
The Sprague Manufacturing Company, assignee of John C. McIntyre, both of Farnham, New York, U.S.A., 2nd July, 1896; 6 years. (Filed 27th April, 1896.)

Claim.—1st. The combination with a supporting frame provided with a horizontal shaking sieve, of a series of separating rods supported in said frame below the sieve and arranged in horizontal rows one below the other, and cleaner bars having openings through which the separating rods pass, substantially as set forth. 2nd. The combination with the supporting frame provided with a horizontal shaking sieve, of a series of separating bars supported at their ends in said frame below the sieve and arranged in horizontal rows one below the other, the separating rods of the several rows being arranged progressively closer together from the uppermost to the lowermost row and cleaner bars adapted to move lengthwise upon said separating rods, substantially as set forth. 3rd. The combination with a series of separating rods, of a cleaner bar adapted to slide lengthwise on said rods and provided with a flange or ledge below said rods, substantially as set forth. 4th. The combination with the front and rear supporting bars, of a series of separating rods attached at their rear ends to the rear supporting bar and capable of rising at their front ends above the front supporting bars, means for lifting the front ends of the separating rods and a cleaner bar arranged to slide on the separating bars, substantially as set forth. 5th. The combination with the rear supporting bar and the front supporting bar, of separating rods loosely connected at their rear ends with the rear supporting bar and resting loosely with their front ends in the notches of the front supporting bar, a cleaner bar arranged to slide upon said separating rods and means for lifting the front ends of said rods, substantially as set forth. 6th. The combination with the front and rear supporting bars, of separating rods connected loosely at their rear ends with the rear supporting bar and resting loosely with their front ends upon the front supporting bar, a cleaner bar arranged to slide upon said rods, rollers connected with the cleaner bar, and inclined tracks supporting said rollers, whereby the cleaner bar is raised above the front supporting bar upon being drawn forward, substantially as set forth.

No. 52,784. Foot Guard for Railway Frogs.

(Garde pour rails de croisement.)

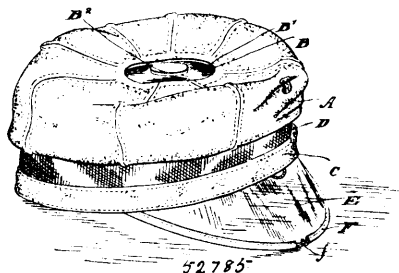
Fig 1



William Driscoll, Brockville, Ontario, Canada, 2nd July, 1896; 6 years. (Filed 30th May, 1896.)

Claim.—1st. The combination of railway-frog foot-guards *F* composed of spring steel bent circular form downwards and outwards at both ends, tapered at the front end and placed between the rails *A, B* and *C*, substantially as and for the purpose hereinbefore set forth. 2nd. The combination of the guards *F* composed of steel spring of circular form placed longitudinally between the rails *A, B* and *C*, one end secured to the tie and the other end loose, made high enough to come up within half an inch of the crown of the rails, substantially as and for the purpose hereinbefore set forth.

No. 52,785. Cap. (Bonnet.)



The Firm of Gillespie, Ansley and Dixon, assignees of John Jakob Zweifel, all of Toronto, Ontario, Canada, 2nd July, 1896; 6 years. (Filed 13th June, 1896.)

Claim.—1st. The combination with a cap made of cloth or any other suitable material, of a transparent peak as and for the purpose specified. 2nd. The combination with a cap, made of cloth or any other suitable material, of a transparent peak and an edging provided with a reinforcing wire, as and for the purpose specified. 3rd. In a cap, in combination the body portion, a transparent peak and a perforated band or opening in proximity to such peak, as and for the purpose specified. 4th. In a cap, the combination with the body portion, of a peak formed with two layers of cloth provided with