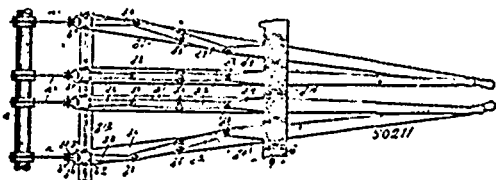
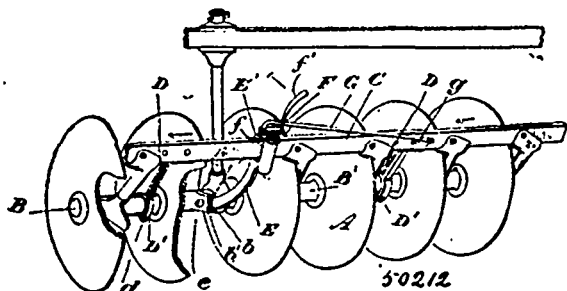


as described. 2nd. A saw shifter, comprising a primary lever, a saw engaging lever pivoted on and carried by the primary lever, and



a compensating lever centrally pivoted to said primary lever and having one end pivotally connected to said saw engaging lever, and having the other end pivotally connected to a fixed arm or body, with the said fixed arm and the arm of the saw engaging lever connected thereto, all of the same length, substantially as and for the purposes set forth. 3rd. The combination with the cross-bar b^3 , of the primary lever b^1 , pivoted to said cross bar, and provided with the pintle b^5 , of the saw engaging lever b^2 , having the sprocket b^6 , engaging said pintle and provided with the pivoted jaw-head or yoke b^7 , the lever b^3 , pivoted to the lever b^1 , and having one end connected by slot and pin to the lever b^2 , and its other end connected by slot and pin to the fixed arm b^4 , all constructed and operating substantially as and for the purpose set forth.

No. 50,212. Disc Harrow. (*Herse à disque*.)



The Firm of David Maxwell & Sons, assignee of David Maxwell, jr., both of St. Mary's, Ontario, Canada, 8th October, 1895; 6 years.

Claim.—1st. In a disc harrow, the combination with the discs and the scraper beam suitably supported in relation thereto, of an H-shaped lever centrally pivoted, and a connecting rod secured at one end of the lever and the other end to the beam as shown and for the purpose specified. 2nd. In a disc harrow, the combination with the discs and the scraper beam suitably supported in relation thereto, of an L-shaped lever centrally pivoted, a handle for the same, and a connecting rod secured at one end of the lever and the other end to the beam as shown and for the purpose specified. 3rd. The combination with the discs and the scraper beam supported upon arms upon the thimbles between the disc gangs, of a supplemental arm secured at the lower end to one of the thimbles and having a slot in its upper end, an L-shaped lever provided with a handle, and a connecting rod secured at one end to the lever and at the other end to the beam as shown and for the purpose specified. 4th. In a disc harrow, a scraper comprising a sleeve with jaws pivotally held in position, a blade and a spiral spring in the sleeve extending between the blade and the beam, as and for the purpose specified. 5th. In a disc harrow, a scraper comprising a sleeve with jaws pivotally connected to the beam, a blade with a shank extending into the sleeve and pivotally connected thereon, and a spiral spring extending between the shank and the beam, as and for the purpose specified. 6th. In a disc harrow, a scraper comprising a sleeve with jaws pivotally connected to the beam, a blade with a shank extending into the sleeve and having a shoulder b^1 , formed as to abut the end of the sleeve, a bolt extending through a sleeve and slot in the shank, and a spiral spring extending between the shank and the beam, as and for the purpose specified. 7th. The combination with the beam, of a scraper pivotally connected thereto, a sleeve forming part of the scraper, and a spiral spring extending between the blade of the scraper and the beam, as and for the purpose specified.

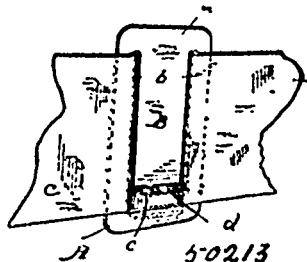
No. 50,213. Garment Supporter.

(*Support pour vêtements*.)

Samuel James Simmons and William Oliver Simmons, both of Boston, Massachusetts, U.S.A., 8th October, 1895; 6 years.

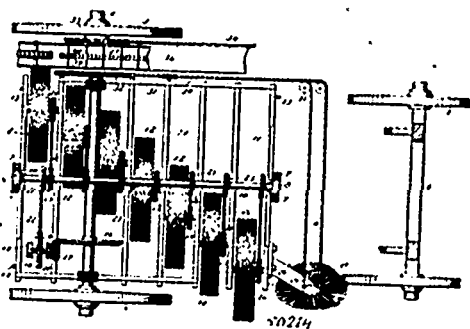
Claim.—1st. The combination with a plate having a tongue connected therewith, said tongue having teeth thereon, of a belt connected with the plate and having sliding connection therewith and bearing against the back of the tongue whereby to exert a pressure thereon, to force the teeth into the garment, substantially as set forth. 2nd. The combination with a plate having a slot therein, a tongue connected with the plate at one end of the slot, said tongue

narrower than the slot whereby a space is formed between the tongue and slot at each side of the tongue, and the tongue extend-



ing at an angle to the plate and gripping teeth extending from the tongue, of a belt passed through the space at the edges of the tongue and in contact with the tongue, said belt being adapted to force the tongue from its normal position at an angle to the plate towards the plate, substantially as set forth.

No. 50,214. Street Sweeping Machine. (*Balayeuse mécanique pour rues*.)



William See Kindle, Philadelphia, Pennsylvania, U.S.A., 9th October, 1895; 6 years.

Claim.—1st. In a sweeping machine, the combination of a frame having vertical aligned guideways at opposite sides, aligned slide bars vertically movable in the guideways, a broom frame secured at its ends to the lower ends of said slide bars, a shaft journaled at its ends in the upper part of the respective slide bars, driving mechanism for said shaft, means for moving said slide bars and the broom frame carried thereon vertically in said guideways, a series of brooms rotatively mounted on the lower part of the broom frame beneath said shaft, and gearing between said shaft and the respective brooms, substantially as set forth. 2nd. In a sweeping machine, the combination of a frame, having vertical guideways at opposite sides, slide bars movable vertically in said guideways, a shaft journaled at its ends in the upper part of the respective slide bars, a broom frame comprising a series of beams extending parallel to each other and transversely of the frame of the machine, brooms journaled between the adjacent beams in said series and arranged in echelon and adapted to sweep transversely of the path of the machine, gearing between the respective brooms and the said shaft, and means for raising and lowering said frame, substantially as set forth. 3rd. A sweeping machine having a frame, a movable broom frame thereon, a broom carried thereby, a roller carried on the frame, chain gearing for driving said broom comprising a chain belt passing over said roller and geared to said broom, and means for driving said chain belt, a lever carried on the frame, and a connection between the lever and roller, substantially as set forth. 4th. In a sweeping machine, the combination of a vehicle frame, a broom frame, a series of brooms in echelon arrangement on said broom frame adapted to sweep transversely of the path of the machine, a gutter broom arranged at one side of the machine in front of the foremost of said series of brooms and adapted to sweep parallel to the path of the machine, and driving mechanism for the series of brooms and for the gutter broom, substantially as set forth. 5th. In a sweeping machine, the combination of a vehicle frame, a broom frame, a series of brooms in echelon arrangement on said broom frame adapted to sweep transversely of the path of the machine, a gutter broom arranged at one side of the machine in front of the foremost of said series of brooms and adapted to sweep parallel to the path of the machine, said gutter broom having its axis inclined downward toward the centre of the sweeping machine, and means for driving the series of brooms and the gutter broom, substantially as set forth.

No. 50,215. Flour Bolt. (*Blutoir*.)

Levi Hertzler, Mechanicsburg, Pennsylvania, U.S.A., 9th October, 1895; 6 years.

Claim.—1st. A rotary bolt provided with ribs having the rear edge bevelled, substantially as described. 2nd. A rotary bolt pro-