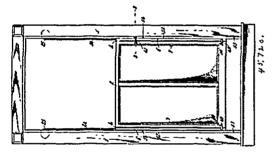
hood over the same, a kinfe arranged between the knotting-hook and cord-holder, and an arm fixed on said disc and curving forward and upward therefrom, whereby the said arm carried along by the disc will pass over the strands of cord, press them inward and downward against the knife, and at the same time sweep the main strand in between the disc and its hood, substantially as described. 12th. In a grain-binder, a revoluble knotting-hook, in combination with the conical revoluble cord-holder disc G, and stationary-hood H, extending over the said disc and provided with notches h^1, h^2 , to stop and guide the cord, substantially as described. 13th. In a aran-binder, a revoluble knotting-hook, in combination with a revoluble cord-holder disc G, a stationary-hood H, extending over said disc, a kinfe I, standing across the breast-plate between the knotter and the cord-holder, and an arm G¹, rigid with said disc and curving forward and upward from its point of junction therewith, substantially as described. 14th. In a grain-binder, a revoluble knotting-hook, in combination with a cord-holder, and a cordone knotting-nook, in commination with a corrinolder, and a corrinolder, arranged across the breast-plate at a slight angle thereto and having its cutting edge inclined upward from front to rear, substantially as described. 15th. In a grain-binder, a knotter-frame provided with a bearing c^4 , for the binding-shaft, in combination with the knotting-hook shaft f_t , and cord holder disc shaft g_t both mounted in the knotter-frame and having bearings for their upper ends opening into said bearing a^4 , substantially as described. 16th. In a grain-binder, the breast-plate A_{γ} provided with a short slot a^4 , at its lower end and a bridge a^2 , across the same, in combination with a cutter I, adapted to set in said slot and detachably fastened to the bridge, a knotting-hook and a cord-holder, substantially as described. 17th. In a grain-binder, a cord-holder consisting of a revoluble conical disc, in combination with a stationary-hood arranged above and extending over the convex surface of said disc, and devices for rotating the latter, substantially as described. 18th. In a grain-holder containing the latter, substantially as described. In a grain binder, a revoluble conical cord holding disc, in combination with a stationary-hood fitted to and extending over the convex surface of said disc, and an arm, or finger, rigid with said disc and projecting forward and upward therefrom in the direction of its movement, substantially as described.

No. 45,720. Revolving Window-Sash. (Cadre de châssis tournant.)

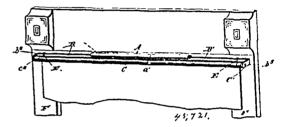


Philip Stover Riddelle, Fentriss Gordon Kerlin, both of Woodstock Virginia, and Benjamin Franklin Dyre, Melrose, Massachu setts, all in the U.S.A., 6th April, 1894; 6 years.

Claim. - 1st. The combination of slide-bars carrying spring-yield one committee or state-bars carrying spring-yield mg anti-friction rollers, spring drums having suspension bands connected with the slides, means for varying the pressure of the rollers against parts of the window frame, a rotatable sish journalled to the slide-bars, a lock for engaging and locking one of the slidebars, and a lock for locking the sashes to one of the shde-bars, substantially as described. 2nd. The combination of slide-bars carrying spring-yielding anti-friction rollers, means for varying the pressure of the rollers against parts of the window frame, a rotatable pressure of the rollers against parts of the window-frame, a rotatable sash journalled to one of the slide-bars, a lock for engaging and locking one of the slide-bars, and a latch mounted on one of the slide-bars for engaging the sash frame and having a finger piece provided with a projection 50, adapted to enter a recess or notch 53, in a part of the window-frame whereby the sash-frame cannot be revolved until the projection enters the recess or notch, substantially as described. 3rd. The combination with slide-bars, and a sash-frame carried thereby, of levers pivoted to one of the slide-bars and carrying an anti-friction roller a leaf soring acting on the relief carrying an anti-friction roller, a leaf spring acting on the rollercarrying lever, a slide movable more or less over the leaf-spring to vary the power exerted thereby on the roller carrying lever, and means for moving the slide longitudually on the slide-bar, substanstably as described. 4th. The combination with the slide-bars, and a sash-frame carried thereby, of levers proted to the slide-bars, carrying anti-friction rollers and having tail-pieces, leaf-spring acting on the tail-pieces of the levers, and slides movable in opposite directions

and means for moving the slides in opposite directions, substantially as described. 6th. The combination, with slide bars, and a sash frame carried thereby, of levers pivoted to the slide bars and carry ing anti-friction rollers, leaf springs acting on the levers and oppositely movable slides provided with toothed portions and bear ing against the leaf-springs, and a device for engaging the toothed mg against the leaf-springs, and a device for engaging the toothed portions of the slides to move them in opposite directions, substantially as described. 7th. The combination, with slide bars, and a sash frame journalled thereto, of a rock shaft mounted on one of the slide-bars and having a latch 45 to engage a part of the sish frame, and a finger piece 49, having a projection 50, adapted to enter a recess or notch in a part of the window frame whereby the sash frame cannot be released and revolved until said projection enters said recess or notch, substantially as described. 8th. The combination, with a slide-bar, having a longitudinal notched portion, and a revolving sash journalled to said slide bar, of a bolt 27 adapted to engage the notches of the slide-bar, a pivoted lever arm 3f engaging a part of the bolt, a bell crank-lever 38 having one arm engaging a part of said prosted lever arm, and a finger piece 41 pivoted to the a part of the bott, a bell crank-lever as naving one arm engaging a part of said pivoted lever arm, and a finger piece. If pivoted to the other arm of said bell-crank-lever, substantially as described. 9th The combination, with a channelled slide-bar, having a series of locking notches 26, and containing pivoted levers. 18 carrying antifriction rollers 20, leaf springs 15, and slides 8 movable more or less into engagement with said springs, of a bolt 27 adapted to engage the locking notches of the slide bar, a prvoted lever arm 31 bearing against a part of the bolt, a bell crank lever 38 having one arm engaging a part of the lever-arm and a finger piece II pivoted to the other arm of the bell-grank lever, substantially as described.

No. 45,721. Window Shade Hanger. (Porte-rideau de fenêtre.)



Ryerson W. Hilliker, Kansas City, Kansas, U.S.A., 6th April, 1894; 6 years.

Claim.—1st. A curtain supporting strip, comprising a middle guide strip and adjustable bracket end strips having outwardly projecting ends upon which the curtain roller pins are supported, substantially as described. 2nd. A curtain strip, comprising the middle guide strip having marginal flauges, and adjustable bracket and strip fixed to alide end is between and have the said flauges. end strips fitted to slide endwise between and beneath said flanges, and outwardly projecting ends to receive and support the ends of the curtain roller, substantially as described. 3rd, In a curtain strip, the combination of a guide strip having marginal flanges and indentations as upon its back, with longitudinally adjustable bracket end strips held in place between said flanges by the said indentations, substantially as described. 4th, A curtain strip, comprising the middle guide strip, having marginal flanges, the longitudinally adjustable bracket end strips held beneath and between said flanges, and having outwardly bowed, or bent, inner ends to bear against the said flanges and hold the bracket strips in place, substantially as described. 5th. A curtain strip, comprising the guide strip having marginal flanges, the longitudinally sliding bracket end pieces, the projecting sleeve upon the ends of the guide strip, and a hook to embrace the said sleeve and fasten into the window casing, substan tially as described.

No. 45,722. Governor for Machinery.

(Gouverneur pour machines.)

Edward Thunderbolt, Carlton, Victoria, Australia, 6th April, 1894; 6 years.

Claim .- 1st. In governors for controlling the speed of machinery, one or more pumps as A and B for supplying compressed air or other one or more pumps as A and D tor supplying compressed areorement fluid into a governing cylinder as L, said governing cylinder being provided with a piston as M for controlling, actuating and regulating the speed of, or the supply of steam or other source of power to a motor or other machine, substantially as and for the purposes described. 2nd. Ingovernors for controlling the speed of machinery, air pumps as A and B having inlet and outlet valves, which latter open into a passage as K leading to a governing cylinder as L, such cylinder having a piston and rod connected with a throttle ing anti-friction rollers and having tail-pieces, leaf-spring acting on the tail-pieces of the levers, and slides movable in opposite directions and engaging the leaf-springs to vary the power exerted thereby on the roller-carrying levers, and means for moving the slides in opposite directions, substantially as described. 5th. The combination, with longitudinally channelled slide-bars, and a sash-frame carried thereby, of levers pivoted in the channels of the slide-bars and carrying anti-friction rollers, leaf springs acting on the roller-carrying levers, and slides arranged in the channels of the slide-bars and carrying anti-friction rollers, leaf springs acting on the roller-carrying levers, and slides arranged in the channels of the slide-bars and exercised. 4th. In governors for controlling the speed of machinery, movable in opposite directions to more or less engage the leaf-springs,