

No. 26,860. Seed Drill. (*Semoir en ligne*).

Edison J. Corser and George W. Kirkpatrick, Macedon, N.Y., U.S., 4th June, 1887; 5 years.

Claim.—1st. The combination, in a seed drill, of a suitable casing and a revolving laterally adjustable distributor, consisting of revolving shell E and feed-wheel F, substantially as described. 2nd. The combination, with the laterally adjustable revolving feed-wheel F, of the shell E arranged to receive motion from the wheel, substantially as described. 3rd. The combination, with the longitudinally adjustable shaft G, of the feed-wheel F secured thereto, and the shell E provided with one or more ribs a fitting a corresponding notch or notches in the wheel, substantially as described. 4th. The combination of the longitudinally adjustable shaft G, feed-wheel F, provided with hubs a, a' and flange l, of the shell E arranged to be rotated by the wheel, substantially as described. 5th. The combination, with the laterally adjustable feed-wheel F provided with hubs a, a' and flange l, of the revolving shell E, and the casing B having suitable inlet and discharge passages for the grain, and a recess within which the shell revolves, substantially as described. 6th. The combination, with the laterally adjustable revolving feed-wheel F, of the revolving shell E and movable partition I, substantially as described. 7th. The combination, with the laterally adjustable revolving feed-wheel F, of the revolving shell E and movable partition I, provided with deflector J, substantially as described. 8th. The combination, with the longitudinally adjustable shaft G, of the feed-wheel F secured thereto, the revolving shell E and movable partition I connected with the shaft so as to be adjusted therewith, substantially as described. 9th. The combination, with the longitudinally adjustable shaft G, of the feed-wheel F secured thereto, the revolving shell E, movable partition I having one or more arms c arranged to engage with groove z in order to secure the simultaneous adjustment of the feed-wheel and partition, substantially as described. 10th. The combination, with the revolving shell E provided on its inner surface with a series of ribs n, of the laterally adjustable feed-wheel F having a series of notches in its circumference adapted to receive the said ribs, and a series of projections o on the inner beveled surface of the flange l, substantially as described. 11th. The combination, with the revolving shell E, of the laterally adjustable feed-wheel F and the movable partition I provided with deflection J having groove o, substantially as described. 12th. The combination, in a grain-drill, of the revolving shell E, feed-wheel F and longitudinally adjustable shaft G having indicator L and pointer N, substantially as described. 13th. The combination, with the revolving shell E, of the laterally adjustable flanged feed-wheel F arranged within the shell, and adapted to form a throat or grain discharge passage of variable dimensions within the shell by its adjustment to and from the opposing surface of the case, substantially as described. 14th. The combination, with the revolving shell E, of the laterally adjustable feed-wheel F, and movable partition I, provided with plate H, substantially as described.

No. 26,861. Paper Pulp Screen.

(*Tamie à Pâte à papier*).

The Seneca Screen Company (assignee of Calvin Russell and Patrick H. Cragin), Penn Yan, N.Y., U.S., 4th June, 1887; 5 years.

Claim.—1st. In combination with the paper pulp screen, a series of pulp compartments separated from each other by intervening partitions extending to the underside of the screen, and a series of pumping bars or plungers arranged respectively in the said compartments, substantially as set forth. 2nd. The combination, with the vat screen and plungers in the vat, of partitions arranged between said plungers, and provided with indentations on their tops and strips secured to the underside of the screen, and adapted to rest in the said indentation and support the central portion of the screen in the vat, substantially as set forth and shown. 3rd. In combination with the vat and screen, the oscillatory pumping bars A, A provided with the longitudinal rib or ribs r, substantially as described and shown. 4th. In combination with the screen C and pumping bars A, A, the vat V provided with ports p, the apron L secured to the exterior of the vat below the ports thereof, and extending above the water line of the vat and the crank arms b, b extending through the ports and up over the top of the apron and pivoted to the exterior thereof, substantially as described and shown. 5th. The combination, with the vat V, of the pulp screen hinged on said vat, as set forth. 6th. The combination, with the vat V, of a frame removably connected to said vat, and the screen secured to said frame, substantially as described and shown. 7th. The combination, with the vat V, of a frame removably connected to said vat, the screen secured to said frame, and partitions in the vat supporting the central portion of the screen, substantially as shown and set forth. 8th. The pumping bars provided with a trunnion on one end, in combination with the vat provided with openings at said ends of the bars, and covering plates detachably secured in said openings, and provided with bearings for the trunnions of the pumping bars, substantially as described and shown.

No. 26,862. Acoustic or Tone Telegraph.

(*Télégraphe Acoustique*).

William T. Barnard, Charles Selden, Baltimore, Md., U.S., and François Van Rysselberghe, Brussels, Belgium, 4th June, 1887; 5 years.

Claim.—1st. As an improvement in the art of multiple telegraphy, the method, substantially as hereinbefore described, consisting in producing upon a line superimposed series of impulses, and in analyzing such superimposed series of electrical impulses made audible in a receiver. 2nd. As an improvement in the art of multiple telegraphy, the method substantially as hereinbefore described, consisting in producing upon a line superimposed series of impulses, and in reproducing in a receiver such superimposed series of impulses and separating each series from the other acoustically. 3rd. The combination of a main line over which several series of electrical impulses are transmitted, a receiver responding to all of these impulses simultaneously and analyzers, substantially as described. 4th. The com-

bination of a main line over which several series of electrical impulses are simultaneously transmitted, one or more receivers responding to all of these impulses and analyzers, each corresponding to one of the series of impulses, substantially as described.

No. 26,863. Punching and Shearing Machine. (*Machine à découper et cisailier*).

George S. Brown, Eureka Springs, Ark. (assignee of Gilbert McDonald, Augusta, Ks.), 4th June, 1887; 15 years.

Claim.—1st. The combination of the plunger D having the friction-roller F, and the friction-roller G journaled above with the wedge H, the pitman L, eccentrics P, shaft M, and lever N, substantially as herein set forth. 2nd. The combination of the shaft M, lever N, and crank Y, with the shear V, upright U, and the pitman Y, substantially as herein set forth. 3rd. The combination of the plunger D, the perforated plate C, and the projecting arm B, with the arm R, pitman S, and lug T upon the lever N, substantially as herein set forth. 4th. The combination of the shaft M, the lever N, the crank Y, and the pitman Y, with the shear-lever V, the eccentrics pitmen Y, and the plunger D, whereby the plunger D and the shear may be operated simultaneously by a single movement of the lever N, substantially as set forth. 5th. The combination of the frame A, having the opening B and arm B, and plate C therein, the friction-rollers F and G and plunger D with the wedge H, pitman L, eccentrics P and lever N, substantially as herein set forth. 6th. The combination of the frame A, and the lever V having shears W and W', with the pitman Y, crank Y, lever N, lug T, arm R, and the plunger D, substantially as herein set forth. 7th. The combination of the frame A, plunger D, shaft M, lever N, eccentrics P, pitman L, and wedge H, with the pitman Y, lever V, and rollers F and G, substantially as and for the purpose herein set forth and described.

No. 26,864. Car-Coupling. (*Attelage de chars*).

Isaac N. Gillock and James R. Crump, Horse Cave, Ky., U.S., 4th June, 1887; 5 years.

Claim.—1st. In a car-coupler, the combination of a draw-head having a hook upon its end, and an upwardly-extending projection upon its intermediate portion, a detachable link having its rear end square, a bail secured to the middle of said link, a flat bar secured at its lower end in said bail rectangular bearings upon the end of the car, and a handle upon the upper end of said bar, as described. 2nd. In a car-coupler, the combination of a draw-head having a hook upon its end, and an upwardly-extending projection upon its intermediate portion, a recessed block upon the end of the car, a detachable link having its rear end square, a bail secured to the middle of said link, a flat bar secured to said bail and rectangular bearings upon the end of the car, as described and shown.

No. 26,865. Organ Pedal. (*Pédale d'orgue*).

James S. Foley, Chicago, Ill., U.S., and Joseph Ruse, Toronto, Ont., 4th June, 1887; 5 years.

Claim.—1st. The mouldings A adjustably connected to the pedal B, in combination with mechanism designed to press the said mouldings A outwardly against the side of the pedal-box, when the pedals are in their normal position, substantially as and for the purpose specified. 2nd. The side-plates C, rigidly secured to the side mouldings A, and laterally adjustably connected to the pedal B, the centre plate D longitudinally adjustably connected to the pedal B, and by the arms E to the plates C, in combination with mechanism designed to press the mouldings A outwardly against the side of the pedal-box, when the pedals are in their normal position, substantially as and for the purpose specified. 3rd. The side-plates C rigidly secured to the side mouldings A and laterally, adjustably connected to the pedal B, the centre plate D longitudinally adjustably connected to the pedal B, and by the arms E to the plates C, in combination with the double crank G journaled in the pedal B, and connected by one of its arms to the plate D, and having its other arm bifurcated and designed to come in contact with the skirting F, substantially as and for the purpose specified. 4th. The mouldings A, adjustably connected to the pedal B and connected to the plate D by the arms E, in combination with the link J pivoted at one end to the frame of the instrument, and connected at its other end to the plate D, substantially as and for the purpose specified. 5th. The mouldings A, adjustably connected to the pedal B by means of the pins i, and connected to the plate D by the arms E, in combination with the link J pivoted at one end on the frame of the instrument, and at its other end to the saddle I which is adjustably connected to the plate D, substantially as and for the purpose specified.

No. 26,866. Sharpening Attachment for Tools. (*Appareil à aiguiser les outils*).

James S. Foley, Chicago, Ill., U.S., and Joseph Ruse, Toronto, Ont., 4th June, 1887; 5 years.

Claim.—1st. The combination, with a plate of casters connected thereto, a tilting shaft carried thereby, and a tool clamp arranged in connection with the shaft, substantially as described. 2nd. The combination, with a plate of casters carried thereby, a tilting shaft supported upon the plate and formed with a slot adapted to receive a tool clamp, said tool clamp and a clamping nut arranged in connection therewith, substantially as described. 3rd. The combination, with a plate of casters adjustably connected thereto, a standard also adjustably connected to the plate, a shaft adjustably connected to the standard, and a tool clamp carried by the shaft, substantially as described. 4th. The combination, with a plate of casters 11, thumb-nuts 12, arranged in connection with the casters, a standard 14, a screw 15, arranged in connection therewith, a shaft 16, having a flattened face 2, and a recess 3, a thumb-screw 18, by which the shaft 16, is connected to the standard 14, a tool clamp 20, having an aperture 4, and a shank 19, and a nut 21, arranged in connection with the tool clamp, substantially as described.