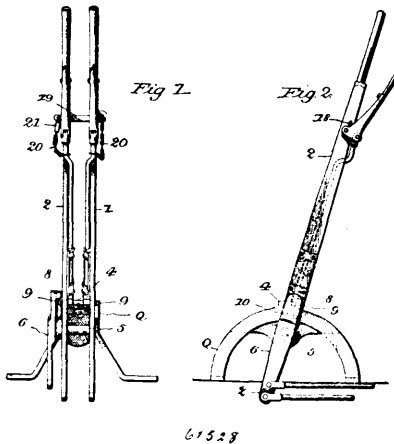
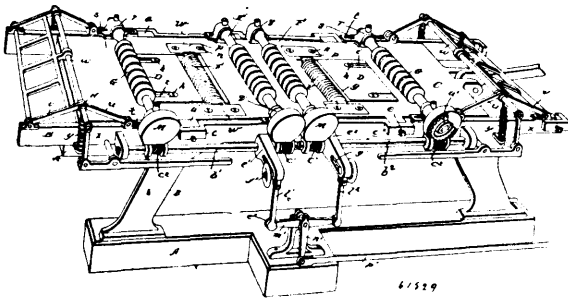


them, one of said bearing-blocks being formed also with an additional passage crosswise of the path of movement of the slide to accom-



modate the locking-bar which is to be engaged by the locking-dogs on the slide, these parts being constructed and arranged together, substantially as and for the purposes hereinbefore set forth.

No. 61,529. Excelsior Making Machine.
(Machine à faire le fibre de bois.)

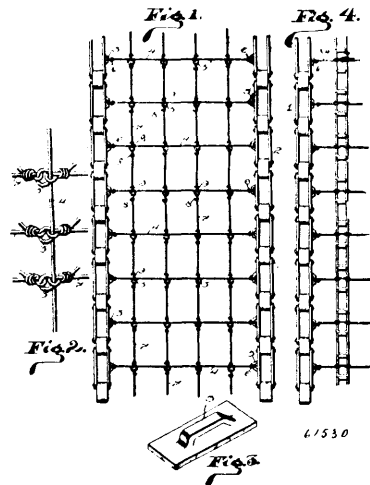


William H. Brown, Alpena, Michigan, U.S.A., 26th October, 1898; 6 years. (Filed 23rd June, 1898.)

Claim.—1st. In an excelsior machine, the combination of a main frame, a reciprocating cutter head, rotary cutter heads and oppositely-arranged cutting blades carried by said head, stationary feed rolls journaled in bearings fixed on the frame and carrying gear wheels, movable feed rolls journaled in bearings movable on the frame and also carrying gear wheels, independent, aligned feed shafts journaled in bearings at one side of the main frame and each having a fixedly connected worm gear meshing with the gear wheel of one stationary roll and a splined worm gear meshing with the gear wheel of one movable roll, ratchet wheels fixed on the feed shafts, arms loosely mounted on the shafts and carrying pawls in engagement with the ratchet wheels, a lever fulcrumed at an intermediate point of its length, connections between the opposite ends of said lever and the arms, and a suitable means for rocking said lever whereby the feed shafts are alternately actuated, substantially as specified. 2nd. In an excelsior machine, the combination of a main frame, a reciprocating cutter head, stationary feed rolls journaled in bearings fixed on the frame and carrying gear wheels, movable feed rolls journaled in bearings movable on the frame and also carrying gear wheels, feed shafts journaled in bearings on the main frame and each having a fixedly connected worm gear meshing with the gear wheel of one stationary roll and a splined worm gear meshing with the gear wheel of one movable roll, ratchet wheels fixed on the shafts, arms loosely mounted on the shafts and carrying pawls in engagement with the ratchet wheels, a lever fulcrumed at an intermediate point of its length, pitmen connected at one end to the opposite ends of the lever and having their upper ends adjustably connected to the arms on the feed shafts whereby they may be fixed at various distances from said shafts, and a suitable means for rocking the said lever, substantially as specified. 3rd. In an excelsior machine, the combination of a main frame, a reciprocating cutter head, an oscillatory lever connected with the cutter head and adapted to be connected with a motor, feed rolls journaled in suitable bearings on the main frame, two feed shafts journaled on the main frame and each connected by gearing with two feed rolls, ratchet wheels fixed on said shafts, arms loosely mounted on the shafts and carrying pawls in engagement with the ratchet wheels, a lever fulcrumed at an intermediate point a lever fulcrumed at an intermediate point of its length and having

its ends connected with the arms on the feed shafts, and a connection between said lever and the oscillatory lever, substantially as specified. 4th. In an excelsior machine, the combination of the main frame sections having the pockets *c d* at intervals in their length, a reciprocating cutter head, of less width than the space between the frame sections, arranged between the said sections and having its upper side flush with the upper edges thereof, guide blocks arranged in the pockets *c* of the frame sections and extending inwardly beyond said frame sections and engaging the side edges of the cutter head whereby the cutter head is held free from the frame sections and spaces formed between the head and frame sections for the escape of dust, bearing blocks arranged in the pockets *d* of the frame sections and disposed below and forming slide rests for the cutter head, and adjusting screws backing the guide and bearing blocks, substantially as specified. 5th. In an excelsior machine, the combination of a main frame, a reciprocating cutter head, a stationary feed roll journaled in suitable bearings on the main frame, a movable feed roll, bearing boxes carrying said movable roll and adjustably connected with the main frame, a toggle lever comprising an outer member connected with the main frame and inner members connected to the adjustable bearing boxes and pivotally connected to the outer member, a spring connected with the toggle lever and frame and adapted to exert a downward pull on said lever, and suitable means for flexing the toggle lever and thereby moving the movable feed roll in a direction away from the stationary roll, substantially as specified.

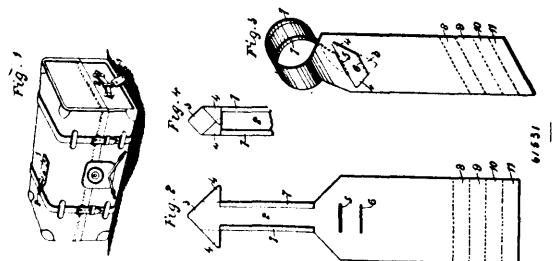
No. 61,530. Binder Carrier. (Transport pour lieuses.)



Frank Butler and James K. Stansbury, both of Fayette, Iowa, U.S.A., 26th October, 1898; 6 years. (Filed 24th September, 1898.)

Claim.—1st. In a carrier, the combination with cross stays bent into eyes, of lengthwise or longitudinal stays hooked into the free portion of the eye of one cross-stay and hooked into the eye of the next adjoining cross-stay, but around the crossed portion of said eye. 2nd. In a carrier, the combination with sprocket-chains whose links are provided with eyes, of cross-stays hooked through said eyes and also bent into intermediate eyes, and lengthwise or longitudinal stays hooked through the eyes of adjoining cross-stays. 3rd. An endless metal carrier comprising two endless chains, a plurality of wires or chains and extending parallel with the chains and a plurality of cross-wires connected with said wires or chains extending longitudinally with the chains and also connected at their ends with links in the chains, for the purposes stated.

No. 61,531. Label. (Etiquette.)



James Baring Gould, 54 Lambton Quay, Wellington, New Zealand, 26th October, 1898; 6 years. (Filed 1st September, 1898.)