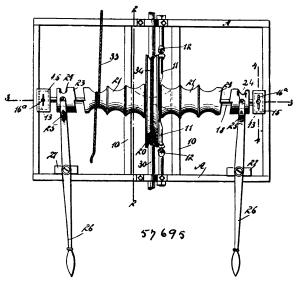
combination of a supporting frame A provided with separated uprights  $a, a^1$ , one of which is formed with engaging shoulders  $a^4$ ,  $a^5$ , arranged one above the other, said supporting frame being also provided with a movable extension  $a^6$  having one of its extremities hinged to the main portion of the supporting frame, a top B detachably engaged with the supporting frame, said top having one of its ends interposed between the shoulders  $a^4$ ,  $a^5$ , and its lower face provided with shoulders b engaged with the adjacent faces of the uprights a,  $a^1$ , and a brace  $b^1$  having its lower end detachably engaged with the free end of the extension  $a^6$  and its upper end hinged to the top B, substantially as and for the purpose specified.

No. 57,695. Device for Operating Hay-forks.

(Appareil à actionner les fourches à foin.)



John Fremont Tuttle, Springdale, Washington, U.S.A., 6th October, 1897; 6 years. (Filed 1st October, 1897.)

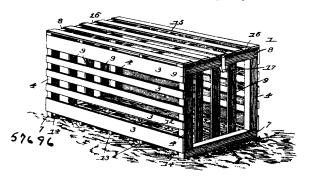
Claim.—1st. In a machine for controlling hay-forks and like devices, a driving-shaft, a pulley located on said shaft, a guide-pulley located beneath the said shaft-pulley, and said guide-pulley being made in two sections, one section being of greater diameter than the other, the section of the smallest diameter being conical, whereby a shoulder is formed between the two sections, the said guide-pulley being placed at an angle to the shaft-pulley, a driving-pulley located at an angle to the guide-pulley and beneath the same, being provided with a peripheral V-groove, and a belt engaging with the three-pulleys, substantially as and for the purpose set forth. 2nd. In a machine for operating hay-forks and the like, the combination with a line-shaft, a pulley thereon, a conical or stepped pulley loose on the shaft, and a clutch for locking the conical or stepped pulley to the shaft, and a clutch for locking the conical or stepped pulley to the shaft, of a guide-pulley below the pulley of the said shaft, said guide-pulley being in two sections with shoulder between them, one section being larger than the other and the smaller section being conical, a grooved driving-pulley below at right angles to the guide-pulley and a belt passing around the said pulleys, the said belt being crossed between the guide-pulley and the pulley of the line-shaft, substantially as described. 3rd. In a machine for operating hay-forks and like articles, the combination, with a line-shaft, a driving-pulley secured on the shaft, conical or stepped pulleys mounted to turn on the shaft at each side of the driving pulley, the face of each stepped or separated pulley-partition being concaved, a clutch adapted one for engagement with each stepped or conical pulley, and shifting devices for operating the said clutches, of a drive-shaft, a guide-pulley secured on said drive-shaft, beneath the driving-pulley of the line-shaft, and at right angles to the line-shaft, as second pulley located above the pulley of the drive-shaft, said guide-pulley being

## No. 57,696. Folding Crate. (Boite pliante.)

Ezra A. Armstrong and William N. Willard, both of Sarnia, and Howard Hotchkiss, Lambertville, all in the State of Michigan, U.S.A., 6th October, 1897; 6 years. (Filed 29th September, 1897.)

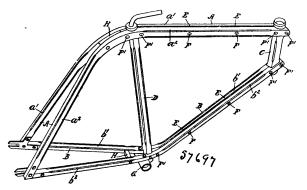
Claim.—1st. In folding crates, the combination of the end sections provided with top and bottom bars having sockets, the side sections having vertical end bars or posts provided with pins or dowels fitting in said sockets, whereby the body of the crate is adapted to fold with the end sections extending parallel with and interposed between said side sections, and removable bottom and top or cover sections, substantially as described. 2nd. In folding crates, the combination

of the end sections provided with top and bottom bars having sockets, the side sections having vertical end bars or posts provided with



pins or dowels fitting in said sockets and transverse cleats on the inner sides of said bottom bars, whereby the body of the crate is adapted to fold with the end sections extending parallel with and interposed between said side sections, a removable bottom section adapted to rest on said transverse cleats, and a removable cover provided with fastening means to engage the top cross-bars of the end sections, substantially as described.

No. 57,697. Bicycle Frame. (Cadre de bicycles.)



William Ross, Sarnia, Ontario, Canada, 7th October, 1897; 6 years. (Filed 25th July, 1896.)

Claim.—1st. The upper and lower frame sections A and B, each formed of two separate and independent, spaced apart strips of wood  $a^1$ ,  $a^2$  and  $b^1$ ,  $b^2$ , respectively, the rear ends of said strips being spread apart and connected to one another to receive the rear wheel, and said frame sections A and B intersecting or crossing and connected to and in combination with the wooden front and diagonal sections C and D, substantially as and for the purpose set forth. 2nd. The upper and lower frame sections A and B, each formed of two separate and independent strips of wood  $a^1$ ,  $a^2$ , and  $b^1$ ,  $b^2$  respectively, the washers E, and the stays or braces H, the rear ends of said strips being spread apart and connected to one another to receive the rear wheel, and said frame sections A and B intersecting or crossing and connected to and in combination with the wooden front and diagonal sections C and D, substantially as and for the purpose set forth. 3rd. The wooden frame-section C, in which the sockets  $c^1$  and  $c^2$  are formed, in combination with the upper and lower frame sections A and B, each formed of two separate and independent strips of wood  $a^1$ ,  $a^2$ , and  $b^1$ ,  $b^2$  respectively, and with the reduced portions  $a^6$  and  $b^6$  respectively, and means for clamping or otherwise securing said reduced portions  $a^0$  and  $b^0$  in said sockets  $c^1$  and  $c^2$  respectively, substantially as and for the purpose set forth. 4th. The wooden front section C, in which the sockets or recesses  $c^1$  and  $c^2$  are formed, and the wooden diagonal section D, in which the reduced portions  $a^0$  and  $a^0$  are formed, and which is provided with the shoulders  $a^0$  and  $a^0$ , in combination with the upper and lower frame sections A and B, each formed of two separate and independent strips of wood  $a^1$ ,  $a^2$ , and  $b^1$ ,  $b^2$  respectively, and said strips  $a^1$ ,  $a^2$ ,  $b^1$ ,  $b^2$ , and diagonal section D having the reduced portions  $a^0$ ,  $b^0$ ,  $d^1$  and  $d^2$  respectively, means for clamping or otherwise securing