pat.—e... 4th. The needle-bed of contain the plate-needles, the remeables, the cam-plate, the cam 20, to draw in the needles to with to spin they arm, and the slide rod at: and means to connect it with the said cam, combined with the slide block at A and its cams at, the said cam, combined with the slide block at A and its cams at, the said slide rod and through it the cam 20, substantially as the plate-needles, the cam plate, the cam 21 to draw in the needle-bed with all cam, and the slide block and pattern surface or chain to the slide block and pattern surface or chain to the slide slide, slide to move the slide block and pattern surface or chain to the slide slide, slide to move the slide block and pattern surface or chain to death the slide slides, the camplate, the needle drawing in cam 23, each at 12 to 22 to 22 to 24 to

cam-oylinder, cylinder-needles, needle-cylinder provided with dogs, but the ring 51 provided with forst 49 to engage the said dogs, comined with enast to automatically operate the said ring, and through the shot the needle-cylinder, substantially as and for the purpose described. Sith, The main shaft, its small fast pulley and fange clutch and large loose pulleys, and the bevel pinion M. combined with the cam-plate and adapted to drive it at different speeds, substantially as described. Sith, In combination, the main shaft, the small fast pulley and fange Ec, citath pulley Sr., and means to connect it with the said flangs, the small, that Ex., Ex., means to move them, belt controller from the pattern surface, to change the speed of rotation of the cam-plate and belt-controller from the pattern surface, to change the speed of rotation of the cam-plate, substantially as set forth. 27th. The main shaft, the clutch pulley Br lease thereon, it was a standard to the said cams, and a ratchet wheel and the shaft 12, with which it is connected, combined with the shaft Fr, pattern surface or chain and connections between the main shaft, the clutch pulley Br lease thereon, the said cams, and a ratchet wheel and the shaft 12, with which it is connected, combined with the shaft Fr, pattern surface or chain and connections between the main shaft is at rest, substantially as set forth. 28th. In combination, the pawl carrier G3, the cam G7, means to actuate it, the forked arm lo engaging a part of said cam, a rod to move the said arm, and pattern surface to actuate the said rod, substantially as described. 3 th. 11 to move the said ond, its lug 18, spring 19 and with the pate of the said rod, its lug 18, spring 19 and with the pate of the said rod, its lug 18, spring 19 and with the pate of the said rod, its lug 18, spring 19 and with the pate of the said rod, its lug 18, spring 19 and with the pate of the said rod, its lug 18, spring 19 and with the pate of the said rod, its lug 18, spring 19 and with the pate of the said rod

No. 18,802. Fruit Dryer. (Etuve à Fruits.)

William R. Phillips, Milford, Del., U. S., 6th March, 1884; 5 years.

Claim—1st. In combination with the outer casing having doors G and opposite thereto, the tray-supporting rollers l and guides lt, the depending stationary bars e and movable bars et, and the gravity catches f pivoted in slots in said bars and having ribs ft, as set forth. 2nd. In combination with the stack having depending burs e, et, the gravity-catches f having ribs ft, adapted to limit the upward and downward movements of the catches by encountering the fronts of the bars as set forth. the bars, as set forth.