

*Claim.*—1st. The yielding fingers *g* projecting from the rock shaft *P* and combined with mechanism for tripping the lock which arrests the motion of the binding devices, whereby the grain is received from the elevator, and the bundle is seized. 2nd. The revolving separator *G*, whereby the stream is arrested, combined with a lock to hold said separator, and yielding fingers or apron to release said lock, when a certain quantity of grain has accumulated. 3rd. The revolving separator *G* mounted at its middle upon the shaft *F* so that each end may, during its revolution, enter the receptacle, and combined with a hinged arm *N*, whereby said separator is arrested, with one end in said receptacle in position to arrest the stream of grain, an automatic mechanism to raise said lock and release said separator. 4th. The yielding fingers *g* combined with the hinged arm *N* which arrests the revolving separator, provided with an adjustable stop *Q*, whereby said arm may be adjusted for release with a greater or less elevation of said fingers as desired. 5th. The hinged lock arm *N* provided with the tension spring *v* and adjusting screw *c*, whereby the resistance of said arm may be regulated at will. 6th. An automatic binding mechanism connected by suitable gearing with the elevation roller, or rollers, whereby said binder is actuated by the motion of said elevator. 7th. The elevator roller *C* provided at one end with the gear *E* in mesh with the gear *K* on the counter shaft *J*, which is provided with a gear *I* combined with the mutilated gear *H* on the end of the separator shaft *F*, whereby when said separator is at rest said gear *I* revolves freely in the mutilated part of gear *H*, and goes into mesh with said gear *H* only after the release of said separator and its forward movement by the weight of grain resting upon it. 8th. The separator shaft *F* provided at one end with the wheel *L* having the studs *a*, combined with the lever *M* and clutch *b*, whereby the elevator roller is caused to engage with the pinion *D* and main binder wheel *Y*. 9th. The divider *G* composed of two similar plates set upon the shaft *F* at a distance from each other, combined with mechanism whereby the proximate end of said plates will be brought together while passing through the stream of grain and separated laterally immediately thereafter. 10th. The separator *G* composed of two similar plates, one fixed upon the shaft *F* perpendicular to the axis thereof, and the other mounted upon the said shaft at a distance with a transverse joint combined with a stationary cam *B*, whereby the proximate ends of said plates are brought together, as they pass through the stream of grain, and separated laterally immediately thereafter. 11th. A separator composed essentially of two parts capable of lateral separation, combined with mechanism whereby said parts are brought together while passing into and through the stream of grain and separated laterally immediately thereafter, to open a clear path for the cord carrier. 12th. The wheel *W* provided with the cam groove *n*, one part whereof is concentric to the axis and the remainder a long ellipse combined with the vibrating rack *F* provided with stud *r*, to engage with said cam and the rotating barrel *L*, whereby the knoter is actuated. 13th. The ejector arm *w* mounted upon the shaft *T* and provided with a joint, which permits said arm to bend forward and pass any obstructing matter in its retreat. 14th. In an automatic binder, a band securing mechanism located above the receptacle, so as to be easily guarded against obstruction by straw and dust, combined with a band carrying arm moving upward from