

Method for tilling a field littered with coarse-stemmed plant residues with controlled stem cutting includes technological processes of cutting, distributing, compacting, shredding, incorporating, and leveling, which are performed sequentially in a single pass of the machine. The processes of shredding and incorporating of plant residues are carried out across the entire working width of the machine. In the row spacing, the cutting of long and coarse stalks is performed prior to the distribution process. After the distribution process, directly on the seed rows and prior to the shredding and leveling processes, the incorporated plant residues are compacted. Following the compaction process and prior to the shredding process, the incorporated leaf-stem mass is pressed down and directed into the shredding zones. The process of cutting long and coarse stems in the inter-row spaces is performed while simultaneously cleaning them of clogging. The stem-cutting process allows for adjustment of the required working depth.