

The invention relates to agricultural engineering, namely to the design of cutters of the coarse-stalked crop harvesters and can be used in designing new and upgrading existing harvesters.

The coarse-stalked crop harvester contains a frame (1), on which are mounted at least one divider (2), located between two cutters, connected to a drive mechanism (3) with a horizontal shaft (14), a bevel gear (15) and a cylindrical double-reduction gear (16). The harvester also contains a receiving chamber (9), stalk extractors (8) and guide rods (7). Each cutter is a multi-tiered sprocket (4) and a disk (5) with cutting segments (6) on the lower tier. The sprocket (4) and the disk (5) with cutting segments (6) are fixed coaxially on an axle, so that by means of the gearbox (16) the angular rotational velocity of the disk (5) with cutting segments (6) is higher than the rotational velocity of the sprocket (4). On the back upper part of the teeth of the lower tier of the sprocket (4) are made bevels at an angle of 30...45° relative to the upper surface of the tooth of the sprocket (4). On the upper surfaces of the cutting segments (6) are made depressions in the form of helical grooves.

The result consists in the rapid removal of cut stalks from the cutting segments of the disk and improvement of the plant harvesting quality.

Claims: 3

Fig.: 3

