



New decortication technology by the $O_{\text{Oldemeyer}}$ + K_{Klack} method

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„Hemp - Problems“ today



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- High losses of shives by field rotting
 - Weather risk by long field rotting of about 3 to 5 weeks
 - Reduced strength of hemp fibres
 - Thermal risk for decortication machines which work with conventional technology
 - **Low output of the decortication units (about 1,5 to/h)**
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Which possibilities do we have to get a more efficient decortication?

Which constructional features are used today and are of use to us?



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(54) Title: METHOD FOR SEPARATING THE OUTER FIBROUS LAYERS OF THE CORE-FORMING SEEDS OF HEMP PLANTS

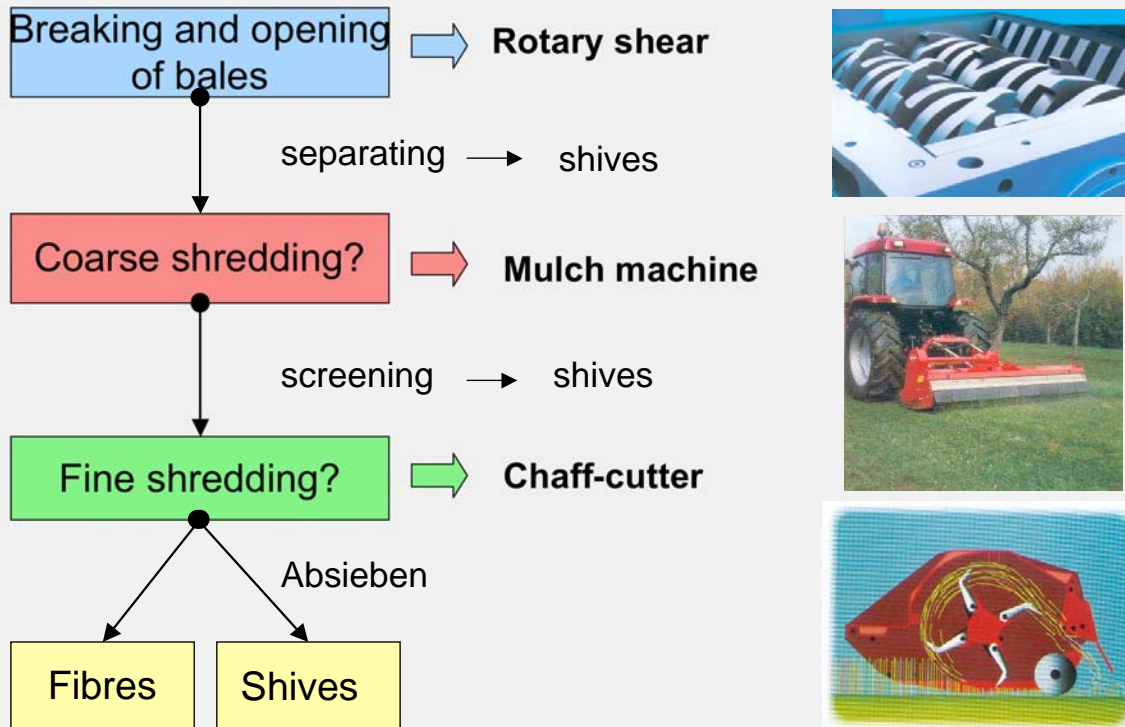
(54) Bezeichnung: VERFAHREN ZUM TRENNEN DER ÄUSSEREN FASERSCHICHTEN VON DEN KERNEN BILDENDEN SCHÄBEN VON HANFPFLANZEN

(57) Abstract: The invention relates to a method for separating the outer fibrous layers of the core-forming seeds of hemp plants, using known and economical equipment. According to the invention, the hemp plants pressed into a ball (13) are shaped into a plant string by means of a roller system (11, 12). Said plant string is guided past separating or peeling rotors (15) by means of conveyor belts (14), each separating rotor (15) being provided with a plurality of rows of peeling blades (16) located at a relatively short distance from each other in the axial direction. Once the fibres have been separated from the seeds, they are ground to chaff by means of a chaff cutter.

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Advantages of the O/K - method



- Short field drying time (1 – 2 weeks)
- Application of simple and available technology (mature? and safe procedure)
- Tender decortication of green hemp straw
- Low costs
- **High capacity up to 30 to/h**

Summary



- The problem of a much too low production rate of the decortication of hemp is solved by the O/K - method
- Many trials
- A variety of technical and especially of commercial chances for hemp products of all kind is offered