

绵核桃剥壳取仁机械的研究

Research on Principle and Mechanics of Cracking and Extracting Kernel of Soft-walnut

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中文摘要:

根据有关资料对核桃品种进行分类,指出绵核桃机械剥壳取仁的必要性和重要性。对绵核桃壳的物理特性进行测定,并将其简化成各向同性的均匀厚度的薄球壳,利用薄壳理论进行内力分析,在此基础上,提出了剥壳取仁原理,研制了双齿盘-弧齿板式剥壳装置及绵核桃剥壳取仁机,试验验证了剥壳装置的最佳参数值。对样机性能的初步考核表明:剥壳率在90%以上,高露仁率为70%~90%,其中一露仁率为30%~40%。

英文摘要:

In this paper, walnut was firstly classified according to variety, and the importance of craching soft-walnut by machine was pointed out. After measuring the physical characteristic of the soft-walnut shell, it was simplified into homogeneous thin shell and its internal force was thus analysed by the thin shell theory. Based on the above, the principle of cracking and extracting kernel was put forward. A machine with doubled serrated-plate and serrated arc was then designed. Experimental test confirmed the optimum parameters of the cracking unit derived theoretically. The performance of the cracking machine: Cracking rate over 90%, high grade kernel rate 70~90%, among which first grade kernel rate 30~40%.

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