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多功能稻麦免耕施肥播种机的设计与试验

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Design of Multifunctional Notill Wheat and Paddy Planter

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摘要

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摘要 江淮稻麦轮作区是我国粮食的主产区, 针对该地区作物种植能耗高, 温室气体排放多, 秸秆焚烧极为严重等突出问题, 结合节能减排机械化种植模式设计了多功能稻麦免耕施肥播种机。该机利用固定道进行播种作业, 同时采用动力防堵机构, 能够实现秸秆粉碎还田、开沟、施肥、播种等多项作业。田间试验表明, 该机通过性能良好, 减少作业能耗, 实现一机两用。

关键词: 稻麦免耕播种机 节能减排 设计

Abstract: Jianghuai region is one of the major grain producing areas in China, where planting has high energy consumption. In addition, greenhouse gases displacement of planting is larger than ever, and the phenomenon of straw burned is extremely serious. To solve the problem, the multifunctional notill wheat and paddy planter was designed with the technique of mechanized cultivation of energysaving emission reduction. Combing with controlled traffic tillage and strip chopping antiblocking mechanism, it could be used to returning corn stalks to the filed, fertilizing, seeding, covering and so on. The filed experiment indicates that the machine can decrease operating power consumption, and its steering ability is outstanding.

Keywords: no till wheat and paddy planter energy conservation & emission reduction design

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