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根据细则 4.17 的声明:

- 关于申请人有权申请并被授予专利(细则 4.17(ii))
- 发明人资格(细则 4.17(iv))

本国际公布:

- 包括国际检索报告(条约第 21 条(3))。

(54) Title: MANUFACTURING PROCESS FOR RICE HUSK FIBER SYNTHETIC RESIN POWDER AND RICE HUSK FIBER PRODUCT

(54) 发明名称: 一种稻壳纤维合成树脂粉及稻壳纤维产品的制作工艺

(57) Abstract: Provided is a manufacturing process for rice husk fiber synthetic resin powder and rice husk fiber product: grinding rice husks into rice husk powder, feeding the powder into a mixer, adding and uniformly mixing cellulose, starch, and water, removing and cooling the mixture into rice husk fiber powder; additionally putting natural resin and lignin into a reaction kettle, adding water and agitating uniformly into slurry, adding nano-silica and continuing agitating evenly, and after cooling, adding the rice husk fiber powder and continuing the agitation, cooling and removing the mixture, thus obtaining a paste material; the paste material is then directly injected into a flash drier to produce rice husk fiber synthetic resin powder. The rice husk fiber synthetic resin powder can be used to make rice husk fiber products such as tableware, toys, furniture, kitchenware and the like having the characteristics of rigidity, high density, nontoxicity, low cost, environmental friendliness and the like, and can also degrade into organic fertilizer, thereby being returned back to nature as well as having a great prospect in the market.

(57) 摘要: 提供一种稻壳纤维合成树脂粉及稻壳纤维产品的制作工艺: 将稻壳研磨成稻壳粉, 放入混合机, 加入纤维素、淀粉和水混合均匀, 取出冷却成稻壳纤维粉, 另外将天然树脂和木质素放入反应釜内, 加入水搅拌均匀成浆, 加入纳米二氧化硅继续搅拌均匀冷却后, 加入稻壳纤维粉继续搅拌, 冷却后取出, 制成糊状物料, 直接注入闪蒸干燥机制成稻壳纤维合成树脂粉, 用该稻壳纤维合成树脂粉能制成餐具、玩具、家具、厨具等稻壳纤维产品, 其具有坚硬、高密度、无毒、低成本、环保等特性, 又能在大自然中自行降解成为有机肥料, 回归自然, 具有广阔的市场前景。



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