

## ABSTRACT

### **MANUFACTURING PROCESS FOR RICE HUSK FIBER SYNTHETIC RESIN POWDER AND RICE HUSK FIBER PRODUCT**

5 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  
10 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  
15 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.