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(57) Abstract :

An automated bamboo powder preparation device, comprising of a housing 1 installed with an artificial intelligence-based imaging unit 2 for capturing and processing surrounding images to determine location of bamboo trees present, plurality of omnidirectional wheels 3 for moving housing 1 towards determined location of bamboo trees, a non-contact moisture sensor for determining dryness level of bamboo tree's bark, a heat gun 4 for providing heat to dry bamboo tree's bark, a grating plate 5 for providing to and fro movement of plate 5 along length of bark for removing peels, a suction unit 7 for collecting removed peels, and a motorized grinder 10 for grinding peels into powdered form in order to form bamboo powder, a storage chamber 11 for transferring bamboo powder into chamber 11 which is accessed by user for collecting powder.

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