

(54) Title: Phytoprotein synthetic fibre and method of manufacture thereof

(57) Abstract: This invention relates to a phytoprotein synthetic fibre and the method for the manufacture thereof. This synthetic fibre is composed of phytoprotein and polyvinyl alcohol, the phytoprotein comprising A parts of the two components, where A is equal to or greater than 5 parts and less than 23 parts, and the polyvinyl alcohol comprising B parts, where B is greater than 77 parts and equal to or less than 95 parts. The methods of manufacturing the synthetic fibre comprise a semi-finished product manufacturing process and a semi-finished product acetalization and finishing process. The sequence of processing of the semi-finished product is as follows: taking a spinning dope prepared from proportions of phytoprotein and polyvinyl alcohol, and after deaeration introducing the spinning dope to a wet-spinning frame to undergo wet-spinning; the synthetic fibre output by the spinning frame then entering a coagulant bath, the semi-finished product being obtained after air drafting, wet bath drafting, drying, dry heat drafting and heat fixing. The synthetic fibres produced as a result of the adoption of this method exhibit good breathability characteristics and require a production period of short duration, thus increasing productivity.



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