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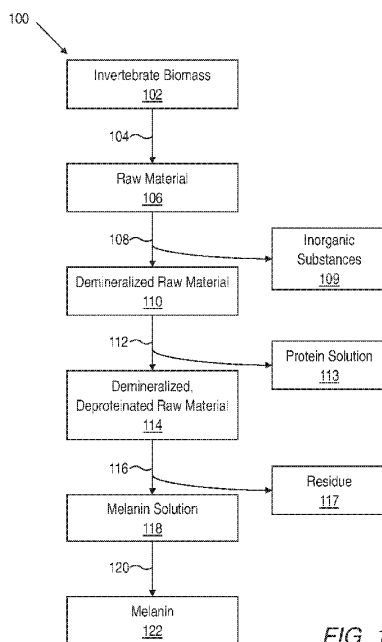


FIG. 1

(57) Abstract: The present invention relates to a method for obtaining melanin from invertebrate biomass, such as melanised Arthropoda phylum species including *Hermetia illucens* and *Tenebrio molitor*. The method comprises i) rupturing the invertebrate biomass to form raw material; ii) demineralizing the raw material with a first acidic solution to form a first solid fraction; iii) deproteinizing the first solid fraction by adding a first weak alkaline solution to form a second solid fraction; iv) liberating a melanin from the second solid fraction by adding a second alkaline solution, resulting in a supernatant comprising the melanin; v) extracting the supernatant; and vi) precipitating the melanin. The present invention further provides a purified melanin obtained from the invertebrate biomass.

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