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Patent Publications




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Sr. No.	Title of patent Project	Patent Number	Sponsored Agency if any	International/ National	Date of Award
1	Nanofilter systems based biomass conversion and recycling processes	2022210136 38A	The Patent Office Journal No. 12/2022 Dated 25/03/2022	National	25 March 2022
2	An improved method of preparation of nanofertilizers loaded with plant nutrients	2022410156 73A	The Patent Office Journal No. 12/2022 Dated 25/03/2022	National	25 March 2022
3	Nanoparticulate drug delivery system targeting to estrogen receptor over-expressed cells	2022410152 20A	The Patent Office Journal No. 15/2022 Dated 15/04/2022	National	15 April 2022
4	A Novel Composition for Antidiabetic for Control of Diabetic Hyperglycemia and Diabetic Complications	2022210206 34 A	The Patent Office Journal No. 16/2022 Dated 22/04/2022	National	22 April 2022


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(21) Application No.202221013638 A
 (43) Publication Date : 25/03/2022

(54) Title of the invention : **NANOFILTER SYSTEMS BASED BIOMASS CONVERSION AND RECYCLING PROCESSES**

(51) International classification :B01D0061020000, C13B0020160000, C13K0001020000, C13B0020140000, C13K0013000000
 (86) International Application No :NA
 Filing Date :NA
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :
 The present invention related to acid recovery systems used in hydrolysis operations contains a chromatographic device that separates the sugar from the acid during the first separation process. The sugar product produced by the chromatographic unit is further processed to provide higher-value goods like ethanol, which is then sold. Sugar has tainted the acid that is still present. In a nanofiltration unit with a nanofilter membrane, the acid polluted with sugar is processed via the membrane. In contrast to sugar, acid is permitted to pass through the nanofilter membrane, whereas sugar is denied. In a traditional acid recovery system, the permeate is collected and recovered in the hydrolysis process.

Diagram:

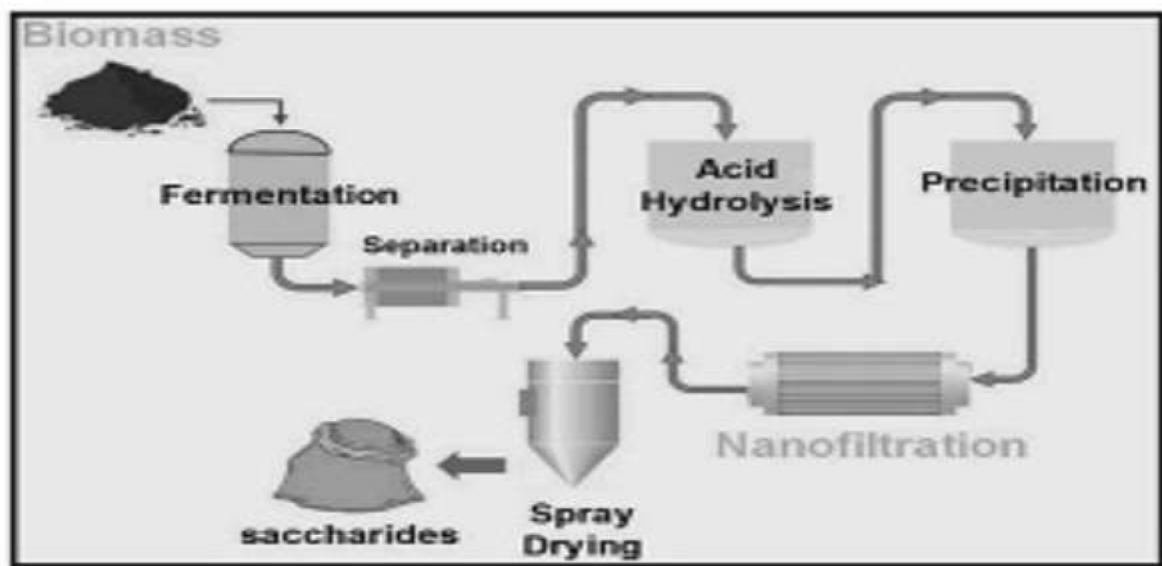


Figure 1: Proposed idea functional flow diagram.

No. of Pages : 22 No. of Claims : 4

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(43) Publication Date : 25/03/2022

(54) Title of the invention : **AN IMPROVED METHOD OF PREPARATION OF NANOFERTILIZERS LOADED WITH PLANT NUTRIENTS**

(51) International classification :A61K0009000000, A23L0033160000, A61K0031375000,
A61K0033220000, A01N0059060000
(86) International Application No :PCT//
Filing Date :01/01/1900
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Filing Date :NA

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(57) Abstract :

[027] The present invention discloses an improved method of preparation of Nano-fertilizers loaded with plant nutrients. The nutritional supplement composition suitable for oral administration, comprising, but not limited to, one or more plant nutrient comprises nitrogen, calcium, potassium, phosphorus, sulphur, magnesium, boron, manganese, iron, chlorine, copper, molybdenum, zinc, its precursor or its combination. Further, an effective amount nanofertilizers loaded with plant nutrients with nitrogen as per a first volume of aqueous solution; an effective amount of nanoparticulated phosphorus as per a first volume of aqueous solution; an effective amount of nanoparticulated potassium as per a first volume of aqueous solution; wherein the aqueous solution is ultrapure water.

No. of Pages : 20 No. of Claims : 9

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(22) Date of filing of Application :19/03/2022

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(54) Title of the invention : **Nanoparticulate drug delivery system targeting to estrogen receptor over-expressed cells**

(51) International classification :A61K0047690000, A61K0047540000, B82Y0005000000, A61K0031704000, G06Q0050200000
(86) International Application No Filing Date :PCT// :01/01/1900
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(57) Abstract :

The development of a vector for the targeted delivery of medicines into estrogen receptor overexpressed cells has been announced. In general, the vector of the present invention is comprised of a plurality of Nanoparticle, each of which includes a plurality of targeted moiety conjugated to an outer surface of the Nanoparticle, the moiety being responsible for binding with the estrogen receptor of a target cell, and bioactive agents entrapped within the Nanoparticle or forming complexes with the Nanoparticle. The targeted molecule of the present invention may also be linked to parent medicines in order to facilitate the development of the active drug.

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(22) Date of filing of Application :06/04/2022

(21) Application No.202221020634 A
(43) Publication Date : 22/04/2022

(54) Title of the invention : **A NOVEL COMPOSITION FOR ANTIDIABETIC FOR CONTROL OF DIABETIC HYPERGLYCEMIA AND DIABETIC COMPLICATIONS**

(51) International classification :A61K0031155000, C07D0339040000, A61K0036889000, A61K0031385000, A61K0033000000
(86) International Application No :NA
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(57) Abstract :

The present invention provides a composition having anti-diabetic properties for diabetic management and prevention against oxidative stress, retarding diabetes-related complications, retarding diabetes-related organ degeneration, and effectiveness to hinder or prevent ailments and conditions resulting from, or exacerbated by, a chronic increase in blood sugar, such as tissue degeneration, cardiovascular disease, kidney dysfunction, loss of cognitive function, and weight gain. The compounds of Formula are the metformin salts of the naturally occurring endogenous biological compound (R)-(+)-lipoic acid, pharmaceutical compositions containing the compound of Formula, and methods of treating diabetes or diabetic complications with the compound of Formula are described herein. The formula is an abbreviation for metformin salt of (R)-(+)-lipoic acid.

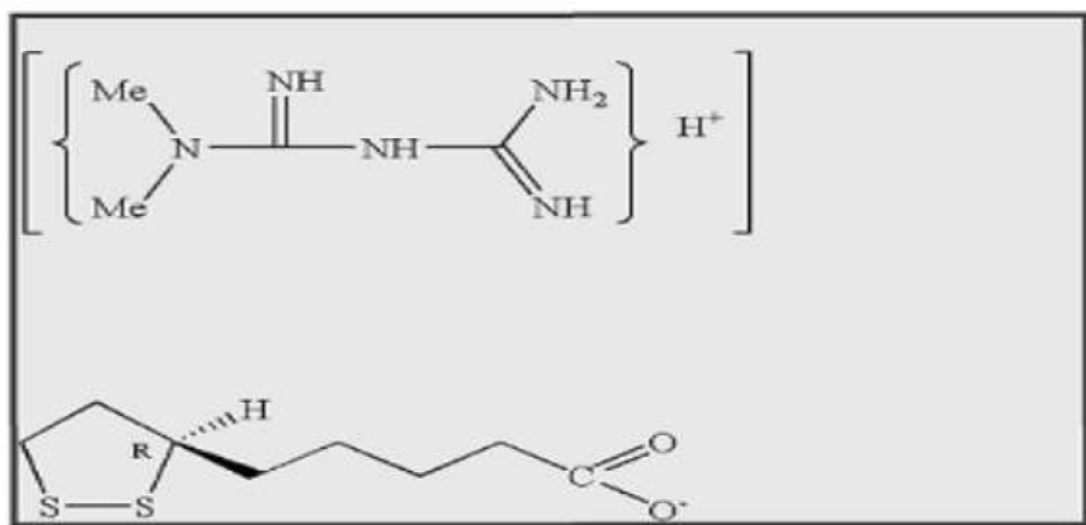


Figure 1: Proposed invention of Crystal structure of metformin R-(+)-lipoate

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