

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311003188 A

(19) INDIA

(22) Date of filing of Application :16/01/2023

(43) Publication Date : 20/01/2023

(54) Title of the invention : APPARATUS FOR EXTRACTION OF SOLUBLE SUBSTANCES

(51) International classification :H01L0021670000, A47J0031440000, B01D0011020000, B04C0009000000, B02C0019000000

(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

(71)Name of Applicant :

**1)Chitkara University**

Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

**2)Chitkara Innovation Incubator Foundation**

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

**1)CHAUHAN, Samrat**

Address of Applicant :Chitkara College of Pharmacy, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

--

**2)CHALOTRA, Rishabh**

Address of Applicant :Maharishi Markandeshwar College of Pharmacy, Maharishi Markandeshwar (Deemed to be University), Mullana, Ambala - 133207, Haryana, India. Ambala -----

-----

**3)SAINI, Monika**

Address of Applicant :Maharishi Markandeshwar College of Pharmacy, Maharishi Markandeshwar (Deemed to be University), Mullana, Ambala - 133207, Haryana, India. Ambala -----

-----

**4)SINGH, Thakur Gurjeet**

Address of Applicant :Chitkara College of Pharmacy, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

--

**5)KAUR, Amarjot**

Address of Applicant :Chitkara College of Pharmacy, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

--

(57) Abstract :

The proposed apparatus 100 for the extraction of soluble substances is comprising the upper portion 102 and the lower portion 104 including the top-down consecutive condenser, extractor, and the extraction pipe 114. The apparatus 100 is equipped with the siphon tube 118 and the steam conduit 120 attached to extraction pipe 114. The vacuum-creating unit 112 is connected between the upper portion 102 and lower portion 104 of the apparatus 100 through a nozzle 108. The negative vacuum pressure is created by vacuum-creating unit 112 in the apparatus 100, which prevents choking of the flow path of the solvent. The proposed apparatus discloses and carries out the design improvement in the apparatus 100. With the introduction and the function of the vacuum-creating unit 112, the efficiency of the apparatus 100 is improved in the extraction of the solvent.

No. of Pages : 14 No. of Claims : 8