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(51) International Classification : B01D 3/00	(72) Inventor(s) : 1.GARIKAPATI D KIRAN BABU 2.PARMVIR SINGH AHUTA 3.VIJAY KUMAR KAUL 4.VIRENDRA SINGH	
(74) Agent :		
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(54) Title of the invention : A PORTABLE MINI DISTILLATION APPARATUS FOR THE PRODUCTION OF ESSENTIAL OILS AND HYDROSOLS

(57) Abstract:

A portable mini distillation apparatus for the production of essential oils and hydrosols comprising one or more vessel(s)(I) having conventional means for heating internally/externally, the said vessel characterized in that a threaded rod (6) being fixed concentrically inside bottom of the said vessel(s) so as to allow vertical movement of a sieved false bottom (5,7), one or more steam spurger(s)(24) being provided between the said vessel bottom (2) and the said movable false bottom, the said vessel(s) being provided with removable fixed lid(s)(3) having a safety valve(s)(21), housing(20) for fixing pressure/vacuum/temperature guage and a vapour outlet(s)(9), the said vapour outlet(s) being connected to the inlet of one or more vertical cohobation column(s)(8), the outlet(s) of the said cohobation column(s) being fixed to the inlet(10); of a conventional condenser(II) provided with closeable vent(15),

outlet(12) of the said condenser being detachably fixed by clamp(14) to a vertical receiver-cum-separator.column (13) having a valve(18) controlled outlet(23), the bottom and middle of the saidreceiver-cum-separator column being provided with a plurality of valve(17,19) controlled recycling pipes(16) connected to the upper portion of the said cohobation column (s).

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