FIG. 1

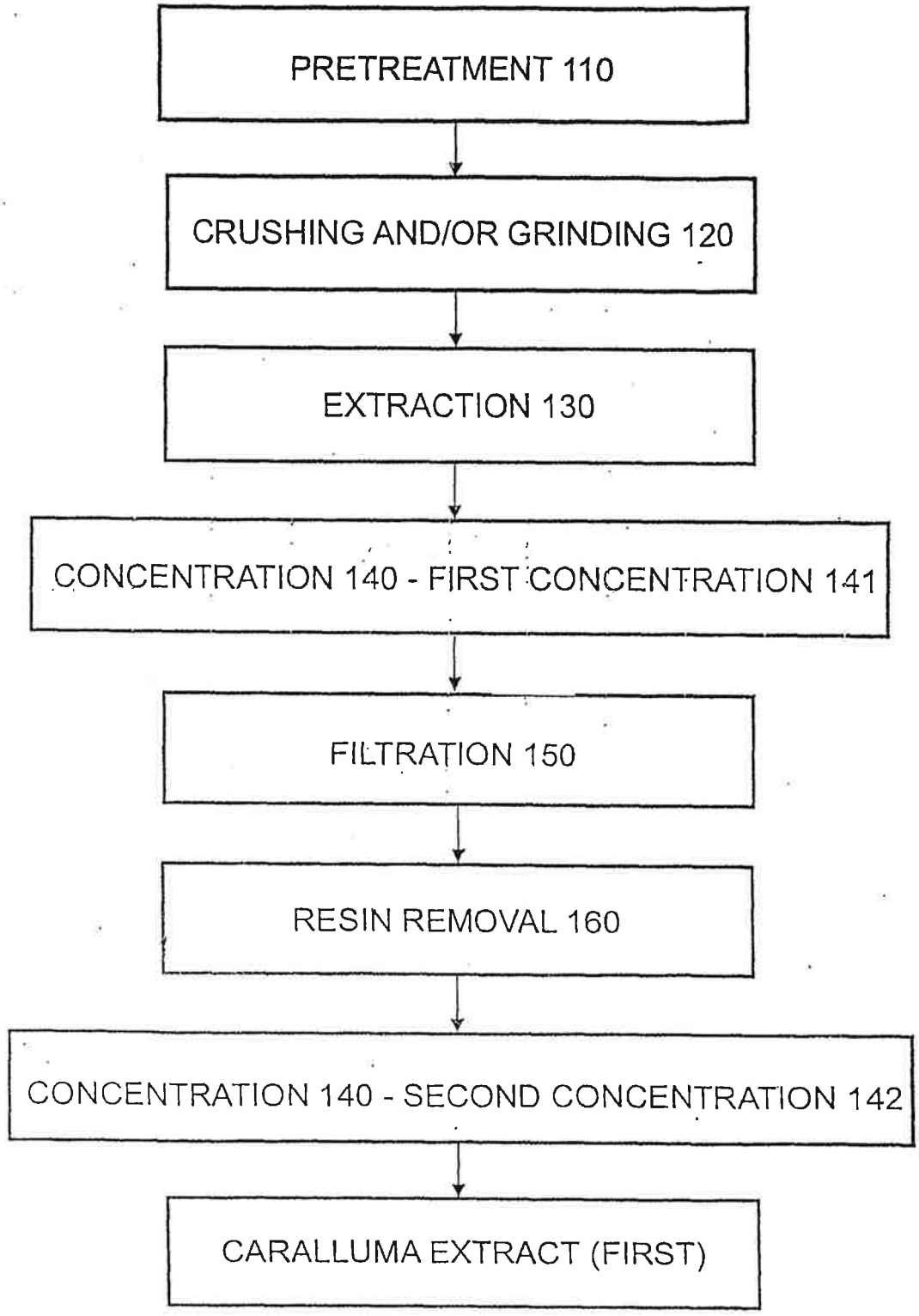

PRETREATMENT 110
CRUSHING AND/OR GRINDING 120
EXTRACTION 130
CONCENTRATION 140 - FIRST CONCENTRATION 141
FILTRATION 150
RESIN REMOVAL 160
CONCENTRATION 140 - SECOND CONCENTRATION 142
CARALLUMA EXTRACT (FIRST)

FIG. 2

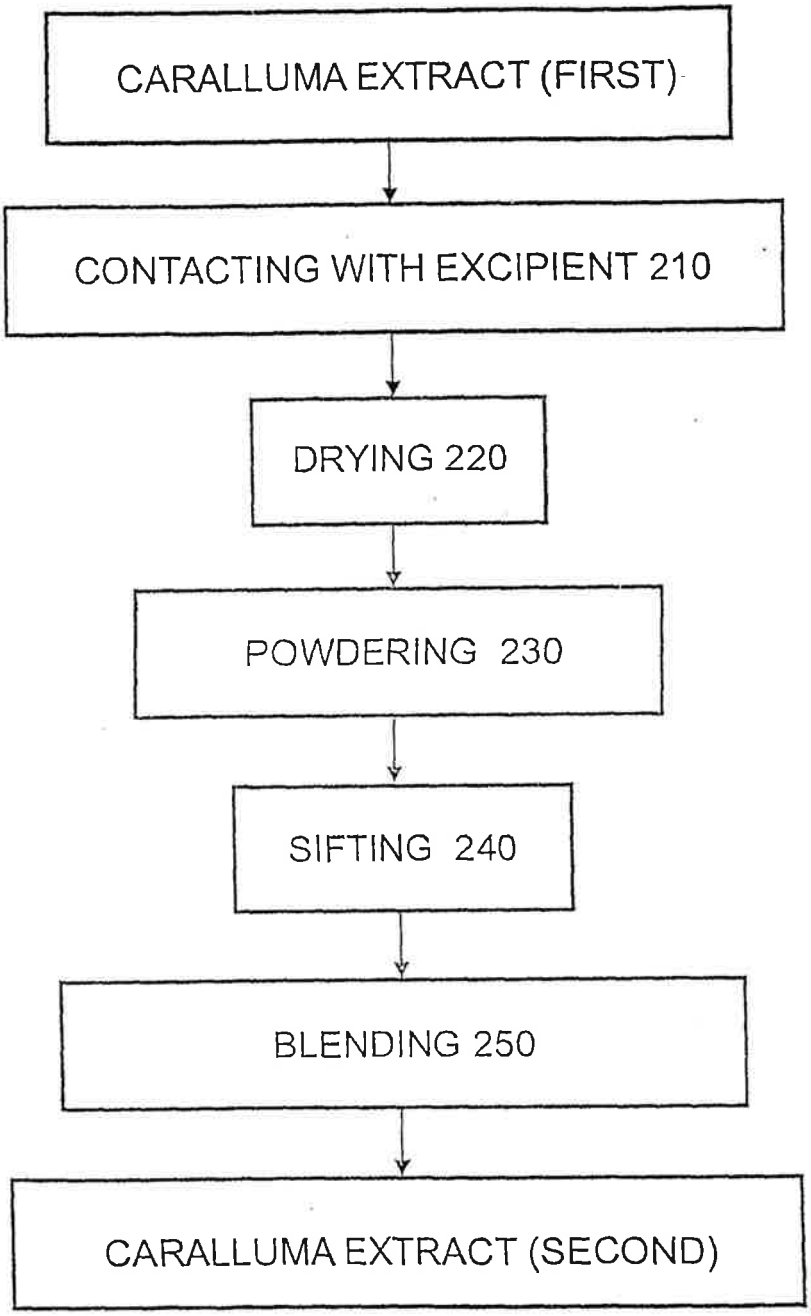

CARALLUMA EXTRACT (FIRST)
CONTACTING WITH EXCIPIENT 210
DRYING 220
POWDERING 230
SIFTING 240
BLENDING 250
CARALLUMA EXTRACT (SECOND)

FIG. 3

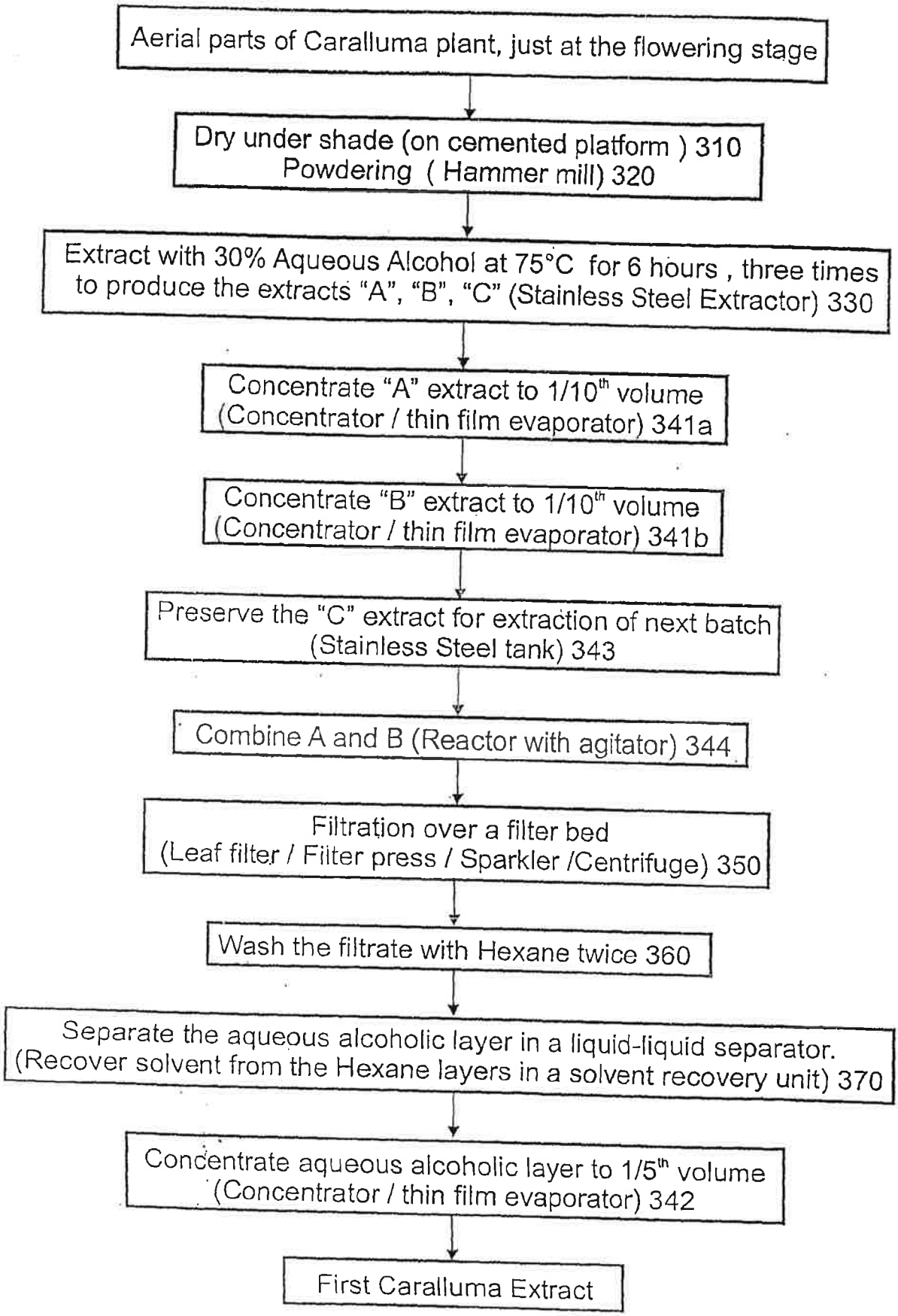
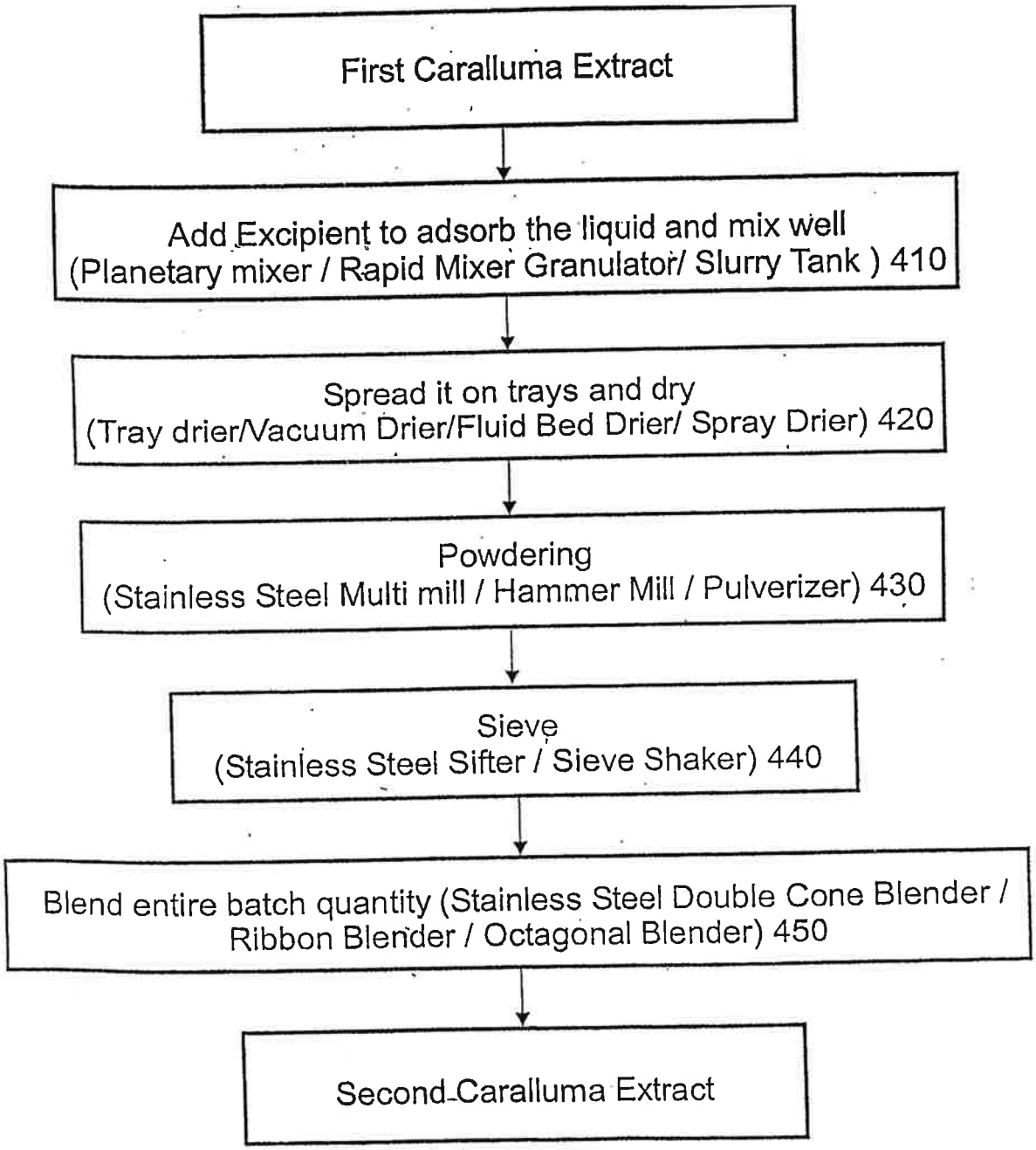

Aerial parts of Caralluma plant, just at the flowering stage
Dry under shade (on cemented platform) 310
Powdering (Hammer mill) 320
Extract with 30% Aqueous Alcohol at 75°C for 6 hours , three times to produce the extracts "A", "B", "C" (Stainless Steel Extractor) 330
Concentrate "A" extract to 1/10th volume (Concentrator / thin film evaporator) 341a
Concentrate "B" extract to 1/10th volume (Concentrator / thin film evaporator) 341b
Preserve the "C" extract for extraction of next batch (Stainless Steel tank) 343
Combine A and B (Reactor with agitator) 344
Filtration over a filter bed (Leaf filter / Filter press / Sparkler /Centrifuge) 350
Wash the filtrate with Hexane twice 360
Separate the aqueous alcoholic layer in a liquid-liquid separator. (Recover solvent from the Hexane layers in a solvent recovery unit) 370
Concentrate aqueous alcoholic layer to 1/5th volume (Concentrator / thin film evaporator) 342
First Caralluma Extract

FIG. 4


First Caralluma Extract
Add Excipient to adsorb the liquid and mix well (Planetary mixer / Rapid Mixer Granulator/ Slurry Tank) 410
Spread it on trays and dry (Tray drier/Vacuum Drier/Fluid Bed Drier/ Spray Drier) 420
Powdering (Stainless Steel Multi mill / Hammer Mill / Pulverizer) 430
Sieve (Stainless Steel Sifter / Sieve Shaker) 440
Blend entire batch quantity (Stainless Steel Double Cone Blender / Ribbon Blender / Octagonal Blender) 450
Second Caralluma Extract