



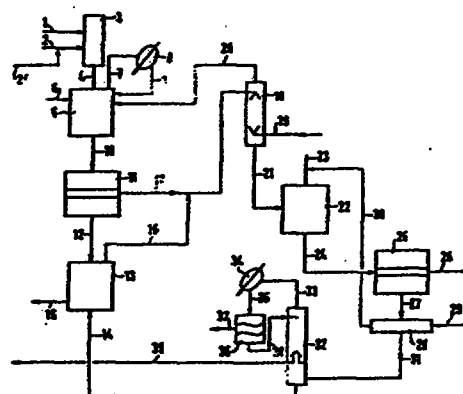
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(54) Title: PROCESS AND DEVICE FOR PREPARING THE NON-TOXIC SALTS OF 6-METHYL-3,4-DIHYDRO-1,2,3-OXATHIAZIN-4-ON-2,2-DIOXIDE

(54) Bezeichnung: VERFAHREN ZUR HERSTELLUNG DER NICHT-TOXISCHEN SALZE DES 6-METHYL-3,4-DIHYDRO-1,2,3-OXATHIAZIN-4-ON-2,2-DIOXIDS UND ANORDNUNG ZUR DURCHFÜHRUNG DIESER VERFAHRENS

(57) Abstract

According to a process for preparing acesulfam salts by reacting amidosulfonic acid salts with diketene, yielding an acetoacetamididosulfonic acid salt (I), ring closure is effected under the influence of an at least equivalent amount of SO₃, and at least the ring closure reaction is carried out in the presence of an halogenated, aliphatic hydrocarbon as inert solvent. The cyclization product is treated with water and the thus obtained acesulfam-H (II) is converted into a non-toxic salt. During distillation of the crude solvent developed, once water and low boiling products have been separated and a sufficiently pure solvent to be reused to prepare the compounds (I) and/or (II) has been recovered, the remaining solvent-containing distillation residue is directly reintroduced, with no further purification, into the system, downstream of the reaction vessel, in order to effect the ring closure reaction. Also disclosed is a device for carrying out this process.



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