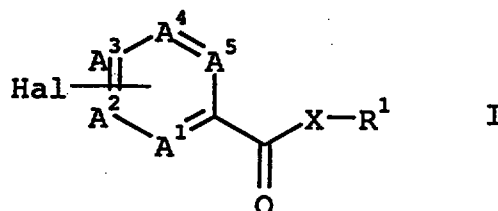


33385-00

PROCESS FOR THE PREPARATION OF HETEROARYLCARBOXYLIC AMIDES AND ESTERS

ABSTRACT OF THE INVENTION

The invention relates to a process for the preparation of heteroarylcarboxylic amides and esters of formula I



in which A¹ through A⁵, R¹, Hal and X
one or two of the groups A¹, A², A³, A⁴ and A⁵ represent a
nitrogen atom and the other groups each independently
represent CR³,

Hal represents a halogen atom,

X represents oxygen or NR²,

R¹ represents an optionally substituted alkyl, aryl,
heteroaryl or cycloalkyl group,

R² represents a hydrogen atom or an alkyl group,

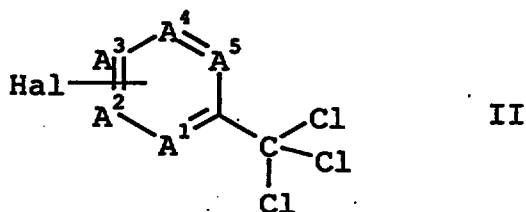
or

R¹ and R² together with the interjacent ring form a
heterocyclic group, and

R³ each independently represent a hydrogen atom or an
alkyl group,

which comprises: heating a mixture consisting essentially
of heteroaryltrichloromethane compound of formula II,





in which A¹ through A⁵ and Hal are as hereinbefore defined,
and 1.0 to 1.5 equivalents of concentrated sulfuric acid,
and reacting the resulting intermediate product with an
alcohol or amine of formula III



optionally in the presence of a diluent and/or a base.