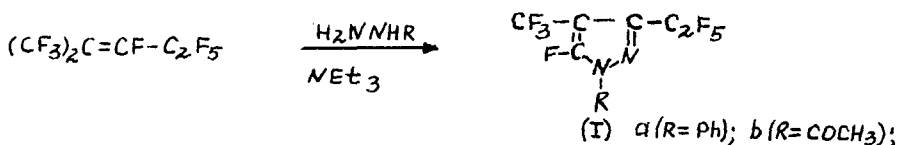


SYNTHESIS AND REACTIONS OF 5-FLUOROSUBSTITUTED PYRAZOLES

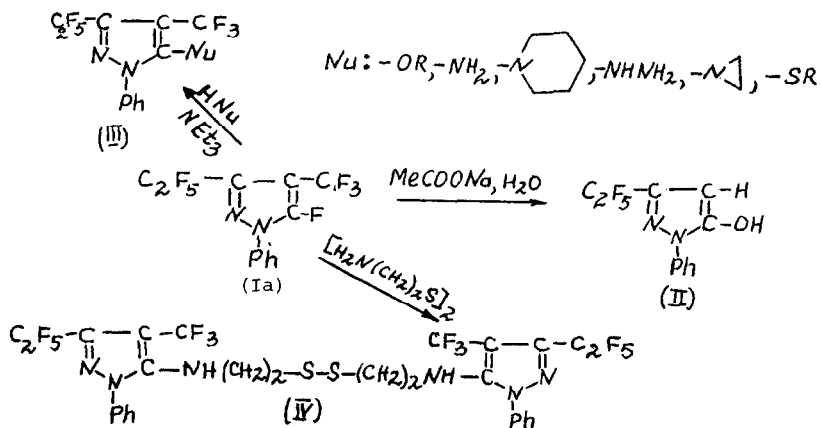
M. D. Bargamova, A. M. Belostotsky and S. M. Motsishkite

A. N. Nesmeyanov Institute of Organo-Element Compounds,
Academy of Sciences USSR, Vavilov St. 28, 117813 (U.S.S.R.)

The pyrazoles (Ia,b) are obtained from perfluoro-2-methyl-pentene-2 as monosubstituted hydrazines in the presence of a triethylamine in one pot preparation.



These pyrazoles are good starting materials for further nucleophilic exchange reactions; thus, 5-hydroxy-, 5-alkoxy-, 5-amino- and 5-mercapto-derivatives of pyrazoles (II-IV) are formed by reaction of (Ia) with O-, N- and S-nucleophiles.



The reaction mechanisms are discussed.