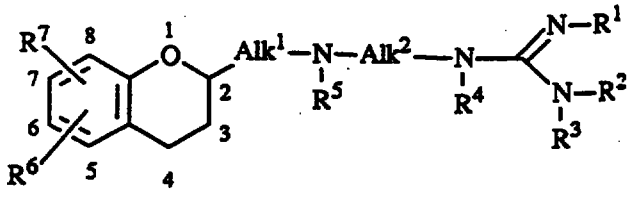
ABSTRACT

IONTOPHORETIC DELIVERY OF AN ANTIMIGRAINE DRUG

The present invention relates to the iontophoretic delivery to a patient, more in particular to a migraine patient, of a compound of formula (I) as shown hereinunder. The invention also relates to a device for the iontophoretic delivery of a compound of formula (I), as well as to a composition containing a compound of formula (I), which can be applied in a device for iontophoretic delivery.

Said compounds are benzopyranalkylaminoalkyl substituted guanidines having the formula



(I),

the pharmaceutically acceptable acid addition salts thereof, and the stereochemically isomeric forms thereof, wherein R^1 is hydrogen or C_{1-6}alkyl; R^2 is hydrogen, C_{1-6}alkyl, C_{3-6}alkenyl or C_{3-6}alkynyl; R^3 is hydrogen or C_{1-6}alkyl; or R^2 and R^3 taken together form a bivalent radical of formula $-(CH_2)_m-$ wherein m is 4 or 5; or R^1 and R^2 taken together form a bivalent radical of formula -CH=CH- or of formula $-(CH_2)_n-$, wherein n is 2, 3 or 4; or R^3 may represent a bond when R^1 and R^2 taken together form a bivalent radical of formula -CH=CH-CH=; R^4 and R^5 each independently are hydrogen or C_{1-6}alkyl; Alk^1 is a bivalent C_{1-3}alkanediyl radical; Alk^2 is a bivalent C_{2-15}alkanediyl radical; and R^6 and R^7 each independently are hydrogen, halo, C_{1-6}alkyl, C_{3-6}alkenyl, C_{3-6}alkynyl, hydroxy, C_{1-6}alkyloxy or cyano.