

Title (en)  
USE OF HETEROCYCLIC NITROGEN-CONTAINING COMPOUNDS FOR REDUCING MOISTURE LOSS FROM PLANTS AND INCREASING CROP YIELD.

Title (de)  
VERWENDUNG HETEROCYCLISCHER, STICKSTOFFHALTIGER VERBINDUNGEN ZUR VERRINGERUNG DES FEUCHTIGKEITSVERLUSTES UND ZUR VERBESSERUNG DER ERNTEAUSBEUTE.

Title (fr)  
UTILISATION DE COMPOSES HETEROCYCLIQUES CONTENANT DE L'AZOTE POUR REDUIRE LA PERTE D'HUMIDITE DES PLANTES ET AUGMENTER LE RENDEMENT DES RECOLTES.

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Application  
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Abstract (en)  
[origin: WO8704321A2] A method for reducing transpirational moisture loss from plants and increasing crop yield by applying to the plant surface or crop an effective amount of a heterocyclic nitrogen-containing compound. This invention also relates to novel heterocyclic nitrogen-containing compounds and processes for the preparation thereof.  
[origin: WO8704321A2] Method comprises applying to the plant surface an amt. sufficient to reduce moisture loss from the plant surface without inhibiting plant photosynthetic electron transport, of N-heterocyclic cpd. of formula R1-X-R2 (I) Also claimed are methods of increasing crop yields and reducing moisture loss from soil by applying (I) In (I), R1=(i) opt. subst. carbocyclic or heterocyclic ring system selected from mono-, bi- and polycyclic (non)aromatic ring systems, and opt. unsatd. bridged ring systems; or (ii) a subst. heteroatom or subst. C atom, or an opt. subst. branched or straight chain contg. two or more C atoms or heteroatoms in any combination; X=covalent single or double bond, an opt. subst. heteroatom or subst. carbon atom, or an opt. subst. branched or straight chain contg. two or more C atoms or heteroatoms in any combination; R2=opt. subst. heterocyclic ring system having at least one N atom, which is selected from homo-, bi- and (non)aromatic ring systems and opt. unsatd. bridged ring systems; a very large number of specific substituents for R1, X and R2 is given. (I) include 33 classes of new cpds. -

Abstract (fr)  
Procédé permettant de réduire les pertes d'humidité par la transpiration chez les plantes et d'augmenter le rendement des récoltes en appliquant sur la surface des plantes ou sur les récoltes une quantité efficace d'un composé hétérocyclique contenant de l'azote. Cette invention concerne également de nouveaux composés hétérocycliques contenant de l'azote ainsi que des procédés pour leur préparation.

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