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(54) **PESTICIDAL MIXTURES**

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CPC ***A01N 43/66*** (2013.01); ***A01N 37/34*** (2013.01); ***A01N 43/38*** (2013.01); ***A01N 43/56*** (2013.01); ***A01N 43/82*** (2013.01)

(58) **Field of Classification Search**
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See application file for complete search history.

(56) **References Cited**

FOREIGN PATENT DOCUMENTS

EP	2230230 A1		9/2010	
EP	WO 2011154433	*	5/2011	..... A01P 7/04
WO	WO 2008150393	*	11/2008	..... C07D 413/110
WO	2011/104087 A1		9/2011	
WO	2011/154433 A2		12/2011	
WO	2012/080415 A1		6/2012	

OTHER PUBLICATIONS

International Search Report for International Patent Application No. PCT/EP2013/071061 mailed Nov. 20, 2013.

* cited by examiner

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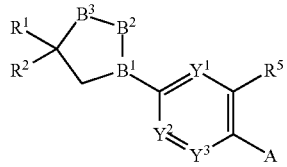
(57) **ABSTRACT**

The present invention relates to pesticidal mixtures comprising a component A and a component B, wherein component A is a compound of formula (I) R2 is group X wherein A is A1 or A2 and X^1, X^2, X^3, B^1, B^2, B^3, Y^1, Y^2, Y^3, Z, k, R^1 and R^5 are as defined in claim **1** and component B is an insecticide. The present invention also relates to methods of using said mixtures for the control of plant pests.

(I)



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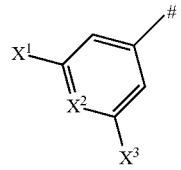

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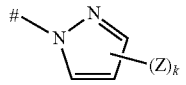

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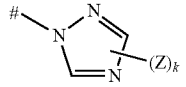

9 Claims, No Drawings