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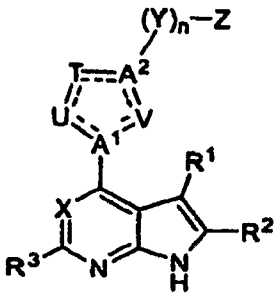
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**(54) Title:** HETEROARYL SUBSTITUTED PYRROLO[2,3-B]PYRIDINES AND PYRROLO[2,3-B]PYRIMIDINES AS JANUS KINASE INHIBITORS



(I)

**(57) Abstract:** The present invention provides heteroaryl substituted pyrrolo[2,3-b]pyridines (I) and heteroaryl substituted pyrrolo[2,3-b]pyrimidines that modulate the activity of Janus kinases and are useful in the treatment of diseases related to activity of Janus kinases including, for example, immune-related diseases, skin disorders, myeloid proliferative disorders, cancer, and other diseases.

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