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ning of each regular issue of the PCT Gazette.

(54) Title: SUBSTITUTED 5-PHENYL PYRIMIDINES I IN THERAPY

(57) Abstract: The present invention relates to substituted 5-phenyl pyrimidines I, which carry a radical X in the 4-position of the pyrimidine ring, a radical Y in the 6-position of the pyrimidine ring, the radical X denoting a group of the formula  $\text{NR}^1\text{R}^2$ ,  $\text{OR}^{1a}$  or  $\text{SR}^{1a}$ , in which  $\text{R}^1$ ,  $\text{R}^2$ , independently of each other, denote hydrogen,  $\text{C}_1$ - $\text{C}_{10}$ -alkyl,  $\text{C}_2$ - $\text{C}_6$ -alkenyl,  $\text{C}_2$ - $\text{C}_6$ -alkynyl,  $\text{C}_1$ - $\text{C}_{10}$ -haloalkyl,  $\text{C}_3$ - $\text{C}_8$ -cycloalkyl,  $\text{C}_3$ - $\text{C}_8$ -halocycloalkyl, phenyl, or 5- or 6-membered heteroaryl or 5- or 6-membered heterocyclyl, containing 1, 2, 3 or 4 nitrogen atoms or 1, 2 or 3 nitrogen atoms and one sulfur or oxygen atom as ring members, which radicals may be unsubstituted or may carry 1, 2, 3 or 4 radicals  $\text{R}^{a1}$ ; or the radical  $\text{NR}^1\text{R}^2$  may also form a 5- or 6-membered optionally substituted heterocyclic ring, containing 1, 2, 3 or 4 nitrogen atoms or 1, 2 or 3 nitrogen atoms and one sulfur or oxygen atom as ring members, which are non-adjacent to the nitrogen of  $\text{NR}^1\text{R}^2$ , in which two adjacent C atoms or one N atom and one adjacent C atom can be linked by a  $\text{C}_1$ - $\text{C}_4$ -alkylene chain and wherein the heterocyclic ring may be unsubstituted or may carry 1, 2, 3 or 4 radicals  $\text{R}^{a1}$  as defined in claim 1,  $\text{R}^{1a}$  has one of the meanings given for  $\text{R}^1$  except for hydrogen; the radical Y being selected from the group consisting of halogen, cyano,  $\text{C}_1$ - $\text{C}_4$ -alkyl,  $\text{C}_2$ - $\text{C}_4$ -alkenyl,  $\text{C}_2$ - $\text{C}_4$ -alkynyl,  $\text{C}_3$ - $\text{C}_6$ -cycloalkyl,  $\text{C}_1$ - $\text{C}_4$ -alkoxy,  $\text{C}_3$ - $\text{C}_4$ -alkenyloxy,  $\text{C}_3$ - $\text{C}_4$ -alkynyloxy,  $\text{C}_1$ - $\text{C}_6$ -alkylthio, di- $(\text{C}_1$ - $\text{C}_6$ -alkyl)amino or  $\text{C}_1$ - $\text{C}_6$ -alkylamino, where the alkyl, alkenyl and alkynyl radicals of Y may be substituted by halogen, cyano, nitro,  $\text{C}_1$ - $\text{C}_2$ -alkoxy or  $\text{C}_1$ - $\text{C}_4$ -alkoxycarbonyl; and wherein the pyrimidine radical may also carry a radical different from hydrogen in the 2-position and wherein the phenyl ring in the 5-position of the pyrimidine ring may be unsubstituted or carry 1, 2, 3, 4 or 5 radicals L which are different from hydrogen, and the pharmaceutically acceptable salts substituted 5-phenyl pyrimidines for use in therapy, in particular in therapy or treatment of cancerous diseases.

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**INTERNATIONAL SEARCH REPORT**

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**A. CLASSIFICATION OF SUBJECT MATTER**  
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**B. FIELDS SEARCHED**

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

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