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**United States Patent** [19][11] **Patent Number:** **5,459,269****Comins**[45] **Date of Patent:** **Oct. 17, 1995**[54] **14-HALO-CAMPTOTHECINS**[75] **Inventor:** Daniel L. Comins, Cary, N.C.[73] **Assignee:** North Carolina State University, Raleigh, N.C.[21] **Appl. No.:** 348,452[22] **Filed:** Dec. 2, 1994**Related U.S. Application Data**

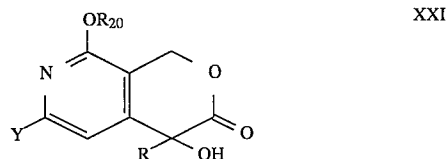
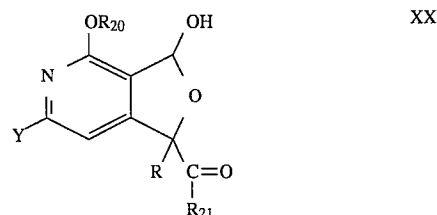
[63] Continuation-in-part of Ser. No. 226,877, Apr. 12, 1994, Pat. No. 5,428,166, which is a continuation-in-part of Ser. No. 41,782, Apr. 1, 1993, Pat. No. 5,315,007, which is a continuation-in-part of Ser. No. 900,650, Jun. 18, 1992, Pat. No. 5,212,317.

[51] **Int. Cl.<sup>6</sup>** ..... **C07D 491/22**[52] **U.S. Cl.** ..... **546/48**[58] **Field of Search** ..... **546/48**[56] **References Cited****U.S. PATENT DOCUMENTS**

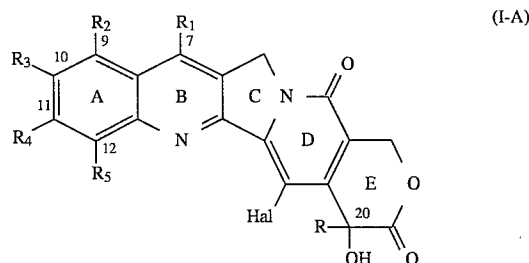
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The present invention also provides a camptothecin analog of Formula (I-A):



wherein:

Hal is a halogen;

and the remainder of the variables are as defined in the specification.

Additionally, other novel compounds useful in the preparation of the compounds of Formula (I-A) and methods of producing compounds of (I-A) are also provided.

**8 Claims, No Drawings**