US005711956A

United States Patent [19]

Wedlock et al.

[11] Patent Number: 5,711,956

[45] Date of Patent: Jan. 27, 1998

[54] **SOLID INSECTICIDAL FORMULATION**

[75] Inventors: **David John Wedlock**, Tarporley; **Jonathan Mark Woodburn**, Sittingbourne, both of England

[73] Assignee: **American Cyanamid Company**, Madison, N.J.

[21] Appl. No.: **457,893**

[22] Filed: **Jun. 1, 1995**

Related U.S. Application Data

[63] Continuation of Ser. No. 351,964, Dec. 8, 1994, abandoned.

[51] **Int. Cl.**[6] **A01N 25/10**; A01N 25/12

[52] **U.S. Cl.** **424/409**; 424/43; 424/419

[58] **Field of Search** 514/521, 531, 514/772.3; 424/409

[56] **References Cited**

U.S. PATENT DOCUMENTS

5,208,030 5/1993 Hoy et al. 424/409

FOREIGN PATENT DOCUMENTS

0 107 296 5/1984 European Pat. Off. C07C 121/75
0415688 3/1991 European Pat. Off. .
2139893 11/1984 United Kingdom .
9408455 10/1993 WIPO .

Primary Examiner—Peter F. Kulkosky
Attorney, Agent, or Firm—Charles F. Costello, Jr.

[57] **ABSTRACT**

A solid formulation which comprises polyvinylpyrrolidone and a pyrethroid insecticide, for example alpha-cypermethrin, is disclosed for use in the treatment of animals, for example cattle. Also disclosed are uses of the solid formulation and methods which use the solid formulation in the treatment of animals.

44 Claims, No Drawings