

# United States Patent [19]

Berthet et al.

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[54] **INERT CROSS-LINKED COPOLYMER SUPPORT, ITS PREPARATION PROCESS AND ITS USE FOR PRODUCING DELAYED ACTION MEDICAMENTS**

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### Related U.S. Application Data

[63] Continuation of Ser. No. 278,752, Jun. 29, 1981, abandoned.

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[51] Int. Cl.<sup>4</sup> ..... **A61K 31/78; C08F 220/12; C08F 220/20**

[52] U.S. Cl. .... **424/81; 428/402; 514/951; 526/323.1; 526/323.2; 522/84**

[58] Field of Search ..... **526/317, 323.1, 323.2; 424/81; 514/951; 428/402**

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### [57] ABSTRACT

Inert cross-linked copolymer able to absorb and then progressively release a pharmaceutically active substance, wherein it is constituted by a powder of a cross-linked copolymer comprising  
30 to 80% by weight of monounsaturated alkyl acrylate and/or methacrylate;  
5 to 68% by weight of acrylic and/or methacrylic acid; and  
2 to 15% by weight of bifunctional or trifunctional acrylate and/or methacrylate polymerized in accordance with free radical polymerization mechanisms.

**8 Claims, 7 Drawing Figures**