



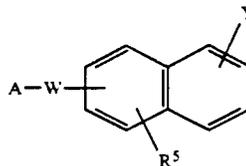
US005084575A

**United States Patent** [19][11] **Patent Number:** 5,084,575

Kreft, III. et al.

[45] **Date of Patent:** Jan. 28, 1992

[54] **QUINOLINE SUBSTITUTED  
NAPHTHALENEPROPIONIC ACID  
DERIVATIVES AS  
ANTI-INFLAMMATORY/ANTIALLERGIC  
AGENTS**

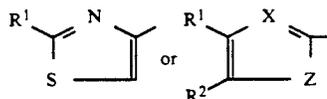


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wherein

a is alkyl 3-19 carbon atoms, diloweralkyl allyl,  
dihaloallyl, diphenylallyl, lower alkynyl,

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[21] **Appl. No.:** 578,367

W is  $-\text{CR}_2\text{O}-$ ,  $-\text{CH}=\text{CH}-$  or  $-\text{CH}=\text{CHC}-$   
 $\text{H}_2\text{O}-$

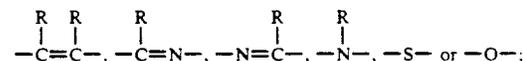
[22] **Filed:** Sep. 6, 1990

X is N or CR;

Z is

**Related U.S. Application Data**

[63] Continuation-in-part of Ser. No. 351,119, May 12,  
1989, Pat. No. 4,690,892, which is a continuation-in-  
part of Ser. No. 202,975, Jun. 10, 1988, abandoned,  
which is a continuation-in-part of Ser. No. 80,122, Jul.  
31, 1987, abandoned.

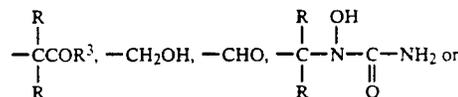


R is hydrogen or lower alkyl;

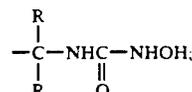
Y is

[51] **Int. Cl.<sup>5</sup>** ..... C07D 215/36; C07D 215/38

[52] **U.S. Cl.** ..... 546/172; 546/174;  
546/175; 546/332; 546/335; 546/339; 546/340;  
546/342; 546/344; 548/179; 548/180; 548/203;  
548/204; 548/330; 560/56; 562/466; 562/467;  
568/441; 568/808



[58] **Field of Search** ..... 546/152, 174, 175, 172

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[57] **ABSTRACT**

There are disclosed compounds of the formula

R<sup>1</sup> is hydrogen, lower alkyl or phenyl;

R<sup>2</sup> is hydrogen or lower alkyl; or

R<sup>1</sup> and R<sup>2</sup> taken together form a benzene ring, option-  
ally substituted by halo;

R<sup>3</sup> is  $-\text{OR}$ ,



$-\text{NHSO}_2\text{R}^4$ ;

R<sup>4</sup> is phenyl or loweralkyl substituted phenyl;

R<sup>5</sup> is halo;

and the pharmaceutically acceptable salts thereof, and  
their use in the treatment of leukotriene-mediated naso-  
bronchial obstructive airpassageway conditions, such as  
allergic rhinitis, allergic bronchial asthma and the like,  
in psoriasis, ulcerative colitis, rheumatoid arthritis as  
well as in other immediate hypersensitivity reactions.

**6 Claims, No Drawings**