

- [54] 2-AMINO-1-(2,5-DIMETHOXYPHENYL)-  
BUTANES
- [75] Inventors: **Richard Anthony Partyka**,  
Liverpool; **Robert Ted Standridge**,  
Cazenovia; **Henry George Howell**,  
East Syracuse, all of N.Y.; **Alexander  
Theodore Shulgin**, Lafayette, Calif.
- [73] Assignee: **Bristol-Myers Company**, New York,  
N.Y.
- [21] Appl. No.: **795,699**
- [22] Filed: **May 11, 1977**

**Related U.S. Application Data**

- [63] Continuation-in-part of Ser. No. 639,676, Dec. 11,  
1975, abandoned.
- [51] Int. Cl.<sup>2</sup> ..... **C07C 87/28**
- [52] U.S. Cl. .... **260/570.8 R; 260/326 R;**  
**260/326 S; 260/326 A; 260/599; 260/609 R;**  
**260/612 D; 424/316; 424/330**
- [58] Field of Search ..... **260/570.8 R, 501.17**

[56] **References Cited**

**U.S. PATENT DOCUMENTS**

3,655,737 4/1972 Carlsson et al. .... 260/501.17

**OTHER PUBLICATIONS**

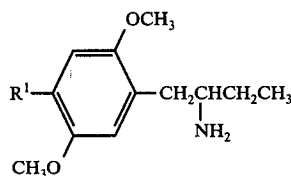
Barfknecht et al. "Jour. of Med. Chem.", vol. 14, No. 4,  
pp. 370-372 (1971).

Shulgin, "Chemical Abstracts", vol. 81, p. 481, Section  
104988s (1974).

*Primary Examiner*—Robert V. Hines  
*Attorney, Agent, or Firm*—Richard R. Lloyd

[57] **ABSTRACT**

Compounds of the formula



I

wherein R<sup>1</sup> is Cl, Br, (lower)alkylthio or



in which R<sup>3</sup> is H or (lower)alkyl including the racemic  
mixtures and the dextrorotatory and levorotatory iso-  
mers, and the pharmaceutically acceptable non-toxic  
salts thereof have been found to enhance the learning  
capacity of mammals, including man, and to improve  
the mental alertness and attitudes of geriatrics without  
producing the undesirable stimulant side effects associ-  
ated with the use of amphetamines.

**4 Claims, No Drawings**