Baliga et al.

June 28, 1977 [45]

[54]	4] GATE MODULATED BIPOLAR TRANSISTOR		[56]	References Cited		
			UNITED STATES PATENTS			
[75]	Inventors:	B. Jayant Baliga, Schenectady; Douglas E. Houston; Surinder Krishna, both of Ballston Lake, all of N.Y.	3,335,296 3,760,239	8/1967 9/1973		
[73]	Assignee:	General Electric Company, Schenectady, N.Y.	Attorney, Agent, or Firm—Donald M. Winegar; Joseph T. Cohen; Jerome C. Squillaro			
[22]	Filed:	Aug. 23, 1976	[57]		ABSTRACT	
[21]	Appl. No.: 716,810		Geometrical design criteria are disclosed for a Gate			
	Related U.S. Application Data			Modulated BiPolar Transistor, or GAMBIT, which is a three terminal variable negative resistance device. The		
[63]	Continuation-in-part of Ser. No. 515,164, Oct. 16, 1974, Pat. No. 3,979,769.		GAMBIT is a planar, interdigited, integrated device whose electrical characteristics show a voltage controlled negative resistance between two of its terminals. The magnitude of the negative resistance is controlled by the variation of the applied bias to the third terminal.			
[52]	U.S. Cl.					
[51]						
[58]	Field of So	earch 357/34, 36, 43, 57, 357/88	12 Claims, 19 Drawing Figures			

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