[45] Oct. 25, 1983

[54]	ULTRASONIC WELDING METHOD FOR
	SEALING A THERMOPLASTIC CAP TO THE
	NECK OF A THERMOPLASTIC CONTAINER

[75]	Inventor:	Thomas R	Sager	Newtown	Conn
1/2	mvemor.	THUMIAS D	Sager.	newtown.	Conn.

[73]	Assignee:	Branson Ultrasonics Corporation,
		Newtown, Conn.

[21] Appl.	No.:	360.	485
------------	------	------	-----

[22]	Filed:	Mar.	22,	1982
------	--------	------	-----	------

		<b>B29C 27/08</b> ; B65B 7/2
[52]	U.S. Cl	<b>156/69;</b> 53/485
		53/489; 156/73.1; 156/580.2; 264/2
FCOI	T71 11 00	1 486 ((0 =0 4 004 === )

## [56] References Cited

## U.S. PATENT DOCUMENTS

3,795,558	3/1974	Dabney et al 156/73.1
		Karobath et al 156/580.2
4,219,912	9/1980	Adams 156/73.1
4,259,419	3/1981	Uba et al 156/580.1

Primary Examiner—Michael G. Witshyn Attorney, Agent, or Firm—Ervin B. Steinberg; Philip J. Feig

## [57] ABSTRACT

A method for sealing the neck of a thermoplastic container to a thermoplastic cap superposed upon the neck and the cap having a lateral edge extending beyond the periphery of the neck using an ultrasonic welding apparatus includes an ultrasonic resonator having a domical internal cavity in its output end for reshaping the lateral edge of the cap in order to form a peripheral bead along the interface between the cap and the neck of the container.

## 2 Claims, 6 Drawing Figures

