

## UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

T	SERIAL NUMBER FILING DATE FIRST NAMED APPLICANT		ATTORNEY DOCKET NO
T	05/602,463 09/06//5 DIEFR	<b></b> !	
L	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Г	ROBERT E. WICKERSHAM OWEN, WICKERSHAM & ERICKSON	EXAMINER RUGGLERUYU	
	433 CALIF. ST., 11TH FLR. SAN FRANCISCO, CALIF. 94104	74111 01211	PAPER NUMBER
		డికటి.	19
		DATE MAILED	: <del>03/23/6</del> 2
	This is a communication from the examiner in charge of your application.		persente en la companya de la compa
	COMMISSIONER OF PATENTS AND TRADEMARKS		
	THIS IS AN ATTACHMENT TO THE NOTICE OF ALLOWANCE AND BASE ISSUE FEE DUE		
2	All of the claims being allowable, PROSECUTION ON THE MERITS IS CLOSED in this application in view of: (H	not attached hereto, a	Notice of Allowance or other
	a. Applicant's communication filed		ing a second
	b. Interview summarized on attached EXAMINER INTERVIEW SUMMARY RECORD.		
	c. Examiner's Amendment to the Record below. Should the changes and/or additions below be unaccep may be proposed as provided by 37-C.F.A. 1.312. To ensure consideration of such an amendment, Base Issue Fee.	table to applicant, an a	appropriate amendment to the record before or with the remittance of the
	d. An Examiner's Amendment will follow.		
	e. X The allowed claims are 1-11	<u> </u>	
[	PROSECUTION ON THE MERITS REMAINS CLOSED. Should the changes and/or additions below be unaccept may be proposed as provided 37 C.F.R. 1.312. To ensure consideration of such an amendment, it must be submit EXAMINER'S AMENDMENT TO THE RECORD ——  Note statement of reasons for allowance contained below. Any comments considered necessary by applicant rethan the payment of the Base Issue Fee; preferably with it, to avoid processing delays. Such submissions should	tted before or with the	remittance of the Base Issue Fee.
.	for Allowance."  Note attached NOTICE OF REFERENCES CITED, PTO — 892, which is part of this communication. The liste invention, but the claims are deemed to be patentable thereover.	d references are consi	dered to be pertinent to the claimed
	Note attached LIST OF PRIOR ART CITED BY APPLICANT, PTO-1449, which is:part of this communication a prior artistatement. The references which were considered have been initiated on the form by the examiner, and the second seco	and serves as an ackn the claims are deemed	owledgment of receipt of applicant's patentable thereover.
.	The formal drawings filed on are acceptable.		<u>·</u>
. :	The drawing correction request filed on has been	approved	disapproved
	Acknowledgement is made of the claim for priority under 35-U.S.C. 119. The certified copy has: been recei		*
	not been received been filed in parent application, serial no		
	filed on		· ·
- '	Note amendment to Specification, Claims and/or Drawing contained below.	$x^{(k)} = x^{(k)}$	Section 1985 and 1985
	The amendment filed September 28, 1981 has bee	en entered	1.
	See attached Statement of Reasons for Allowand	е	
	rain to the state of the state	^	
		Joseph	Ruggerio

JOSEPH F. RUGGIERO
EXAMINER
GROUP ART UNIT 236

## STATEMENT OF REASONS FOR ALLOWANCE

ATTACHMENT 19 TO PAPER NO. 19 05/602,463

The claims patentably distinguish over the art of record by reciting in combination: 1) - the continuous determination of mold temperature at a location closely adjacent to the mold cavity, 2) - the repetitive calculation of the Arrenhius equation to provide a continuous, repetitive output representative of the state of cure in terms of total required cure time, 3) - the repetitive comparison of the total required cure time value with the value of an elapsed timer within the digital computer which is initially set at the closure of the molding press. For example, the patent to Davis et al (3,649,729), while disclosing the continuous determination of the temperature at the boundary surfaces of an article to be molded, does not disclose the continuous comparison of a calculated total required cure time value with elapsed time. The patent to Smith(3,980,743, which is a division of Ser. No. 137,427, April 26, 1971, Pat. No. 4,022,555), not previously of record, is cited of interest. The Smith patent is directed to a rubber curing method(exemplified by the prior art previously of record in the case) wherein the state of cure is calculated in terms of "cure equivalents" or "cure units", the value of which is compared with a predetermined number of "cure equivalents" or "cure units" as opposed to the recited comparison of calculated total required cure time with elapsed time. Further, the claims distinguish over Smith by reciting the measurement of temperature "at a location closely adjacent the mold cavity" which, as per page 10, paper no. 4 of parent S.N. 472,595, excludes use of a probe which projects into the mold such as disclosed by Smith. JOSEPH F. RUGGIERO ·EXAMINER · · ·

Any comments considered necessary by applicant must be submitted no later than the issue Fee and, to avoid processing delays, should preferably accompany the issue Fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance"

GROUP ART UNIT 236

SERIAL NO. FORM PTO-892 (REV. 3-78) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE ATTACHMENT PAPER NUMBER 602463 APPLICANT(S) 236 NOTICE OF REFERENCES CITED J. R. DIEHR, II U.S. PATENT DOCUMENTS DATE NAME SMITH 4-26-1971 9-1976 В Ċ D Ε G Н 1 **FOREIGN PATENT DOCUMENTS** PERTINENT SUB-CLASS DATE COUNTRY DOCUMENT NO. M N # N Q p OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.) R S Ţ DATE EXAMINER

RUGGIERO

3-23-1982

\* A copy of this reference is not being furnished with this office action. (See Manual of Patent Examining Procedure, section 707.05 (a).)