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		(71)Name of Applicant :
	:F02F0003000000,	1) Dr. P. K. SRIVIDHYA
	G06Q0010060000,	Address of Applicant :PROFESSOR DEPARTMENT OF
(51) International classification	B22D0046000000,	MECHANICAL ENGINEERING, PERIYAR MANIAMMAI
	F01D0005180000,	INSTITUTE OF SCIENCE & TECHNOLOGY, PERIYAR
	B22D0011160000	NAGAR, VALLAM, THANJAVUR, TAMIL NADU 613403.
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(32) Priority Date	:NA	2)Dr. D. JEYASIMMAN
(33) Name of priority country	:NA	3)Mr. A. PUGAZHENTHI
(86) International Application No	:NA	4)Mr. S. P. MANIKANDAN
Filing Date	:NA	5)Mr. C. M. VIVEK
(87) International Publication No	: NA	(72)Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1) Dr. P. K. SRIVIDHYA
Filing Date	:NA	2)Dr. D. JEYASIMMAN
(62) Divisional to Application Number	:NA	3)Mr. A. PUGAZHENTHI
Filing Date	:NA	4)Mr. S. P. MANIKANDAN
		5)Mr. C. M. VIVEK

(57) Abstract :

This invention relates with the parametric analysis and reduction of crown shrinkage in piston castings. Casting is one of the mass production manufacturing processes. Piston is manufactured by using casting process. There are various defects have been formed in manufacturing a piston through casting. One among them is shrinkage. Crown shrinkage is a depression in the surface of the crown in the piston. This invention reveals with the identification of root causes and completes solution for the reduction of crown shrinkage in the piston. In this project we made complete analysis of how the crown shrinkage is formed in the casting, parameters affecting the crown shrinkage in piston casting and suggested the solution for rectifying the crown shrinkage.

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