

A METHOD OF SELECTING AN ARRANGEMENT OF SECTORS FOR A  
TURBOMACHINE NOZZLE

A B S T R A C T

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A method of selecting an arrangement of sectors  
(100, 200, 300) for a turbomachine nozzle, the method  
comprising the following steps:

10 A) creating a database of three-dimensional  
numerical models of the sectors by digitizing;

B) setting a criterion for selecting an arrangement  
of sectors and setting a desired value for said  
criterion, the criterion being a function of the shapes  
and the relative positions of the sectors;

15 C) for the various arrangements that are evaluated,  
determining the relative positions of the sectors when  
assembled together by performing a virtual assembly, and  
as a function of said positions, determining the value of  
the selection criterion for the arrangement under  
20 evaluation; and

D) retaining the arrangement for which the selection  
criterion has the value closest to the desired value.

This method serves to optimize selecting sectors in  
a nozzle.

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Fig.1