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DESCRIPTORS: Shafts, \*Bearings Separation, \*Lubri-  
cation, \*Gases, Air, Machines, Construction.

There is derived, on the basis of the study of the  
lubricating characteristics of gases, the equation of  
spatial flow of a gas lubricant. The problem of the  
lubrication of bearings of infinite length (that is, the  
plane problem) is solved. The obtained solutions are  
extended with the help of certain assumptions to real  
bearings of finite length. Finally, there is described  
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ings, and its results are verified experimentally.  
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