

Title	Charges on the Carnauba wax electret
Sub Title	
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Publisher	慶應義塾大学藤原記念工学部
Publication year	1965
Jtitle	Proceedings of the Fujihara Memorial Faculty of Engineering Keio University (慶應義塾大学藤原記念工学部研究報告). Vol.18, No.71 (1965.) ,p.106(42)- 106(42)
JaLC DOI	
Abstract	
Notes	Summaries of Doctor and Master Theses Master of Engineering, 1965 Electrical Engineering
Genre	Departmental Bulletin Paper
URL	https://koara.lib.keio.ac.jp/xoonips/modules/xoonips/detail.php?koara_id=KO50001004-00180071-0042

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Charges on the Carnuba Wax Electret

Tsuneo YOKOI*

An electret is made of Carnuba wax. Its surface charge is due to the difference between two charges;— one is the homocharge, which is trapped on the surface, and the other is the heterocharge, which is due to the orientation of dipoles in the material. To analyse two charges we took the process to make the electret in the vacuum. The homocharge is delivered from the electrode to the dielectric surface depending on the corona discharge. However the charge may not be delivered on the surface if the air gap has much strength. So we made the electret in the vacuum. We measured the surface charge by the induced electrode method. The characteristics of surface charge and discharge current were measured referring to the various field strength and temperature.

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