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A study of frequency analysis on I-V characteristic and acoustic discharge sound correlation in gliding arc discharge IKUYA MURAMOTO, Sojo University, FUMIAKI MITSUGI, TOMOAKI IKEGAMI, Kumamoto University, YOSHITO SONODA, TOSHIYUKI NAKAMIYA, Tokai University, HIROHARU KAWASAKI, Sasebo National College of Technology, JOANNA PAWLAT, Lublin University of Technolgy, HENRYKA DANUTA STRYCZEWSKA, Lublin University of Technology, SHIN-ICHI AOQUI, Sojo University — As for atmospheric pressure electrical discharge, electric glow and arc discharge are typical. We paid attention to gliding arc discharge. We analyze I-V characteristic of gliding arc electrical discharge. We analyze the frequency of electrical discharge sound of gliding arc electrical discharge. Our purpose is to compare these two results, and to examine the relation between I-V characteristic and sound of electrical discharge. We have aimed at the gas resolution in futures in gliding arc electrical discharge.

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