

A Guideline for Contributors to Journal of Materials Science and Engineering A & B, David Publishing Company

The title should be brief and concise.

Yoshio Watanabe, Masato Kawagoe and Tomohiro Yamaguchi
Faculty of Engineering, Kanagawa University, Yokohama 221-8686, Japan

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Abstract: Abstract should be indented 4 letters, 100- to 200-words, written as a single paragraph and printed in Times 9.5-point, not bold, fully justified. Leave 30 mm in both sides. The space between the lines is 11.5-point. It should be a summary and complete in itself. The abstract should indicate the subjects dealt with in the paper and should state the objectives and the results of the investigation.

Abstract should be placed here.

Key words: Moving striation, low pressure discharge, fluorescent lamp, operating frequency.

3-8 keywords are required

Nomenclature

B: flat background

c: sound velocity

Greek letters

α : scattering angle

T: fitting parameter for a constant radial temperature gradient

1. Introduction

The demand for dimmer control in the illuminating system is increasing at the various kind of situation. When a fluorescent lamp is operated under dimming condition, moving striations sometimes take place which cause the flicking phenomena. Although the moving striation is well known phenomenon [1, 2], its mechanism has not been clear even now [3, 4].

2. Experimental Setup

The fluorescent lamp (FPL36) without phosphor shown in Fig. 1 is employed in the experiment. The discharge channel of the lamp is constructed by two

tubes (18 mm of an inner diameter) and one connecting narrow path (8 mm of a diameter) to

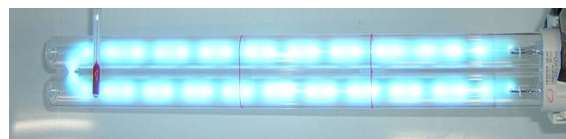


Fig. 1 Overview of the employed lamp (FPL36).

3. Experimental Results

3.1 Shape and Moving Manner of the Striation

Three types of the striation shape shown in Fig. 2 are observed through the experiment. Which type will occur depends on the operating frequency.

4. Conclusions

Three types of moving striation shape, oval-like, peanut-like and beads-like.

Acknowledgments

The authors wish to express their appreciation to Mr. Touno and Mr. Takagi for their

The full name, professor title, research field(s),
E-mail of the corresponding author should be given.

Corresponding author: Yoshio Watanabe, Ph.D., professor, research fields: plasma physics, illuminating engineering. E-mail: watalab@kan.....c.jp.

References Please list according to the following format

- [1] Francis, G. 1956. *The glow discharge at low pressure*, *Encyclopedia of Physics*. S. Flügge, (Ed.) Springer-Verlag, Berlin. From Book
- [2] Karmaus, W., and Riebow, J. F. 2004. "Storage of Serum in Plastic and Glass Containers May Alter the Serum Concentration of Polychlorinated Biphenyls." *Environmental Health Perspectives* 112 (May): 643-47. From Periodicals
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- [4] Chou, L., McClintock, R., Moretti, F., and Nix, D. H. 1993. "Technology and Education: New Wine in New Bottles: Choosing Pasts and Imagining Educational Futures." Columbia University Institute for Learning Technologies. Accessed August 24, 2000. <http://www.ilt.columbia.edu/publications/papers/newwine1.html>. From Internet Sources
- [5] Iizuka, M., and Tanaka, H. 1986. Cement admixture. US Patent 4,586,960, filed June 26, 1984, and issued May 6, 1986. From Patent
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Notes

1. Introduction

The introduction should put the focus of the manuscript into a broader context. Include a brief review of the key literature. If there are relevant controversies or disagreements in the field, they should be mentioned so that a non-expert reader can delve into these issues further. The introduction should conclude with a brief statement of the overall aim of the experiments and a comment about whether that aim was achieved.

2. Materials and Methods

This section should provide enough detail to allow full replication of the study by suitably skilled investigators. We encourage authors to submit, as separate supporting information files, detailed protocols for newer or less well-established methods.

3. Results and Discussion

The results should provide details of all of the

experiments that are required to support the conclusions of the paper. The discussion should spell out the major conclusions of the work along with some explanation or speculation on the significance of these conclusions. There is no specific word limit for this section. This section may be divided into subsections, each with a concise subheading.

4. Main Text

Type your main text in 9.5-point Times, single-spaced. All paragraphs should be indented 2 letters. Be sure your text is fully justified. The space between the lines is 12-point.

5. Figures

Figure captions should 8-point Times and lefted. For example: "Fig.(a blank)1.(2 blanks)The symbol of JMSE". Capitalize only the first word of each caption. The captions are to be below the figures.

Figures which have the following problems should be modified:

(1) Low resolution, (2) Unclear labels, (3) Outer frame or unnecessary background, (4) Containing information which should be moved to figure caption.

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7. Equations

The symbols should be in 9.5-point and centered. The equation numbers should be right flush, as (1).

$$A + B = C \quad (1)$$

Please use "Eq. (1)", not "Equation (1)" or "(1)" in the text.

8. Reference

The title of every reference should be given. Please list and number all bibliographical references in 8-point Times at the end of your paper. When references in the text, write the number referred to as [1, 4] or [5-10]. The sample is shown above.

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