

INFORMATION ON DOCTORAL DISSERTATION

Full name of graduate student: Triệu Quý Huy

Thesis title: “a research on improvement doffing positon accuracy of ring spinning frame”

Major: Mechanical Engineering

Code: 62.52.01.03

The scientific supervisors:

1. Assoc.PhD Hoàng Văn Gọt
2. PhD. Trần Văn Địch

Cơ sở đào tạo: Engineering Research Institute - Ministry of Industry and Trade

SUMMARY OF THE NEW CONCLUSIONS OF THE THESIS

1. Scientific significance:

- Determining that the mechanical solution is to adjust some main specifications of the flow distribution grille, to create a level of speed of 10% - 15%;
- The experimental results have diversified the airflow distribution grille with the square hole system that can be applied to the grille design for electrostatic dust precipitation, not only depending on the type of grille with round hole system;
- The research results above can be used as a basis for the research and application of electrostatic precipitators with different capacity.

2. Practical significance

- The result has been verified to install a symmetrical grille with the ventilation of 45%, round hole system on the device is industrial electrostatic precipitators with a capacity of 55MW for dust precipitation efficiency of 99.2%;
- Results can be used as a basis for research and applied to electrostatic precipitators of different capacities;

The cost of making grille and materials with high mechanical properties, the same section of square hole system is only 40% of the production cost of the round hole system.

3. New contributions

The first in Vietnam, by theoretical research combined experiment, it has found a mechanical solution to create the level of air speed on the model of the chamber of electrostatic precipitators on the basis of adjusting some specifications of the square and round hole distribution grille system with the ventilation of 45%, has proven to improve dust precipitation efficiency when installing 01 symmetric grille at the inlet and outlet on the electrostatic precipitators of industrial coal dust with a capacity of 55MW.

The scientific supervisors

Hanoi, December 12, 2017
PhD student

Assoc.PhD Hoang Van Got PhD Tran Van Dich

Trieu Quy Huy