

## **Tasks and Methods of Improving Lock System of the NS-A Type Electric Switching Machine**

Yoshinobu IGARASHI

A detection function and a lock function, which are important functions of electric switching machines, are fulfilled by a mechanical lock system. Restudying of lock system in 1980s indicates that the system must adopt a bumper between a cam mechanism and a lock piece. An electric switching machine, which reflects restudying, has been developed, but hasn't been widely used. On the other hand, the NS type electric switching machine, which hasn't been able to adopt the bumper, is widely used today.

In this report, we describe the study on installation of the bumper lock system to the NS type electric switching machine, and also describe an example of its practical usage.