

## ABSTRACT

PRODUCTION METHOD OF METAL PRODUCT, METAL PRODUCT, CONNECTION  
METHOD OF METAL COMPONENT AND CONNECTION STRUCTURE

A deposition is gradually formed by molding a product main body, removing a defect periphery including a defect generated on a surface to be treated of the product main body by molding  
5 so that a recess portion is formed on the surface to be treated of the product main body, employing a molded electrode composed of a molded body molded from a powder of a metal or the molded body processed with a heat treatment, and generating a pulsing electric discharge between the recess portion periphery including  
10 the recess portion and the molded electrode in an electrically insulating liquid or gas so that a material of the molded electrode or a reaction substance of the material carries out deposition and such at the recess portion periphery by energy of the electric discharge.

Figure 2.