

## CORROSION PHENOMENON IN ALUMINIUM - COPPER MECHANICAL JOINTS

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### ABSTRACT

*In the classical mechanical joints between aluminium and copper, when the screw-nut system is used, the galvanic corrosion may occur. In order to avoid this possible flaw the authors propose a new method of metals joining by the cold pressure welding procedure on cogged surfaces. The method consists in pressing the metal easy deformable, such as aluminium, on the cogged surfaces of the harder metal as copper. Using this method the galvanic corrosion is eliminated and the contact electrical resistance is neglected. From this reason the method could be applied to get the aluminium and other metals joints used in the electrotechnics industry.*

**KEYWORDS:** Aluminium, corrosion phenomenon, cold welding.

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