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(1881 - 1949)

Amberg (DE)

Patents (details)

4 - Means and methods for increasing the adhesion between contacting surfaces of machine- and constructional-parts that are permanently non-displaceable relative to one another

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Application date	1 July 1938

It is known to increase the resistance to sliding between the contacting surfaces of machine- and constructional parts which are to be assembled in fixed relationship, by introducing between them bodies the coefficient of friction of which to one or both of said surfaces is greater than that of the surfaces to one another when in direct contact. The known bodies may have the form of previously prepared compositions, consisting of fine-grained hard bodies for the most part of corundum or carborundum which are either united with other bodies ceramically or attached to paper or fabric by means of suitable adhesives. Moreover it is also known to introduce, in place of such previously prepared compositions, only the above mentioned hard bodies in the form of a powder between the contacting surfaces of the parts to be assembled and further to mix the particles of the powder with a liquid or paste. The adhesion between the assembled constructional parts according to this last mentioned method depends on the one hand upon the coefficient of friction of the pulverised bodies to the contacting surfaces and on the other hand on the pressure with which the latter are forced together.

The present invention also makes use of finely divided hard bodies which are introduced or adapted to be introduced between the machine- and constructional parts, but increased adhesion is obtained according to the present invention in that the finely divided hard bodies are in the form of wedge-shaped, splintery or needle-pointed particles of tough metal. The introduction of these particles between the contacting surfaces brings about a wedging action which greatly increases the resistance to relative displacement thereof under the action of external forces. In most cases these particles are advantageously mixed with a fluid or pasty binder.

(no drawing)

Corresponding patents

AT, CH