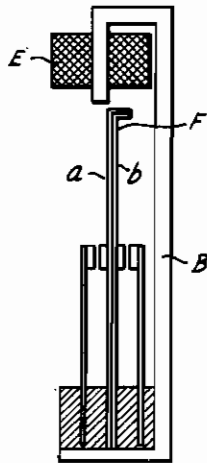


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# ALIEN PROPERTY CUSTODIAN

## VIBRATING CONVERTER

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In a vibrating converter or vibrating rectifier the vibrating flat spring carrying the moving contacts generally consists of steel. The spring thus possesses a certain magnetic permeability, a certain electric conductivity and the necessary mechanical elasticity.

In accordance with the present invention the properties of the vibrating spring as regards permeability, electric conductivity and elasticity are substantially enhanced in that the flat spring is composed of at least two layers on which the one consists of a material which has a high permeability while the other layer consists of a material having a high electric conductivity and favorable mechanical elastic properties, more especially spring bronze.

An example of construction embodying the idea of the invention is shown in the figure. The oscillating spring F of the vibrating converter con-

sists of two thin layers *a* and *b* which are welded together or soldered together or simply riveted and of which the one (*a*) consists of soft iron while the other one (*b*) consists of spring steel or which is even better of spring bronze. The layer formed of soft iron provides a high resultant permeability of the flat spring thus establishing a favorable magnetic closing of the field of the exciter coil E by the strap B and the flat spring F. The part consisting of spring bronze assures a high conduction so that the current heat transmitted to the spring will be low. At the same time there can be attained a sufficient elasticity without subsequent effects. This is assured more especially if the layer (*a*) composed of soft iron is substantially thinner than the layer (*b*) made of spring bronze.

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