

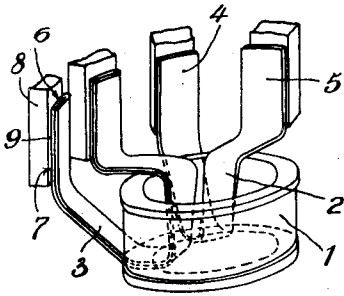
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STATIONARY ARMATURE FOR SMALL ELECTRIC GENERATORS

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INVENTOR

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UNITED STATES PATENT OFFICE

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STATIONARY ARMATURE FOR SMALL
ELECTRIC GENERATORS

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3 Claims. (Cl. 171—207)

The invention relates to a stationary armature for small electric generators.

The main object of the invention is to obtain such an armature with at least four poles or more, eight, ten, twelve or even more which may be utilized for the lighting of bicycles or for pocket lamps for example.

The armature according to the invention is of the type comprising only one coil traversed by the totality of the flux, the core of the armature being formed by pieces of sheet-iron folded and twisted in a suitable manner.

In order to increase the number of poles without difficulty lower the reluctance of the armature and diminish the resistance of the coil, the invention is so arranged that the core iron sheets present to the air-gap their rolled surface and that each folded and twisted iron sheet traverses the coil and forms with its ends at least one pole in opposition to which one or several poles of contrary polarity are found.

Another object of the invention is to render possible the enlargement of the iron section of the core of the armature by folding the iron-sheets in two again one or several times.

The drawing shows a form of execution, given by way of example, of an armature for small electric generators according to the invention.

According to the drawing, the armature is formed by the armature-coil 1 and by a certain number of core iron sheets, only two of which, the core iron sheets 2 and 3, are shown. The core iron sheet 2 is formed by a sheet iron strip which has been folded in such a way that its ends form the poles 4, 5 whilst its middle part is passed through the coil 1. If the section of the core iron sheet had to be enlarged, i. e. the section presented to the flux to be doubled, for example,

one could utilize a sheet iron strip of double width, that one would, first of all, fold in two again in the way of its length, as is the case for strip 3.

As the figure shows, the poles are not formed by the edge 6 of the iron sheets but by their rolled surface 7 delimiting with the field-poles 8 the air-gap 9. The construction is very simple and allows one to place many poles the ones next to the others in a very narrow space.

The folded width of the ends of the sheet iron forming the pole elements corresponds to the width of the adjoining field poles 8.

What I claim as my invention and desire to secure by Letters Patent of the United States of America is:—

1. A stationary armature for small electric generators, including an armature coil, a core constructed of a piece of sheet iron curved about the coil, the ends of the core extending from the coil to form pole pieces of opposite polarity, said extending portions of the sheet iron core being folded.

2. A stationary armature for small electric generators, including an armature coil, a core constructed of a piece of sheet iron having folded end portions forming pole pieces of opposite polarity, the mid-portion of the core being curved about the armature coil.

3. A stationary armature for small electric generators, including an armature coil, a core constructed of a plurality of sheet iron pieces curved about the coil, the ends of each of the sheet iron pieces extending from the coil to form pole pieces of opposite polarity, all of the extending pole forming pieces being folded at least once.

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