

(No Model.)

2 Sheets—Sheet 1.

F. W. SCHNEIDER.

PASTE CARRYING MACHINE FOR ELECTRIC ACCUMULATORS.

No. 576,163.

Patented Feb. 2, 1897.

Fig.1.

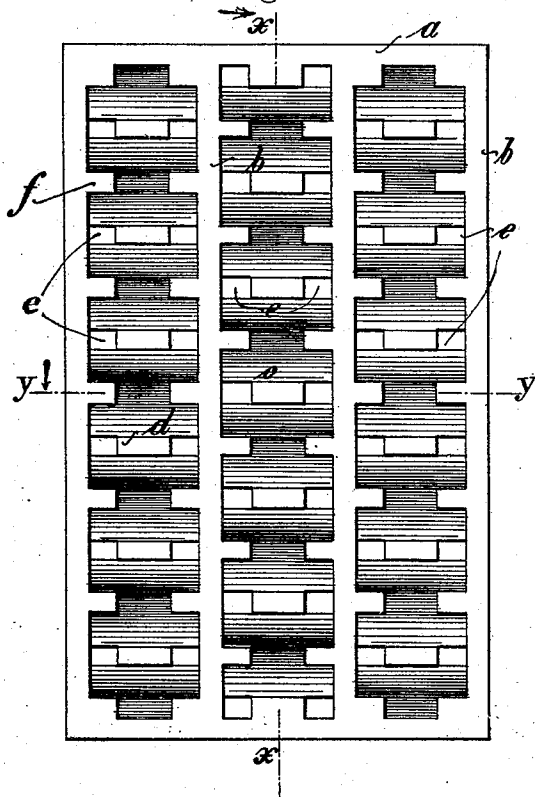


Fig.2.

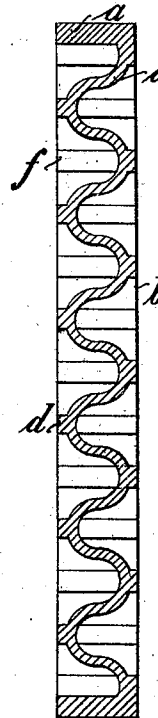
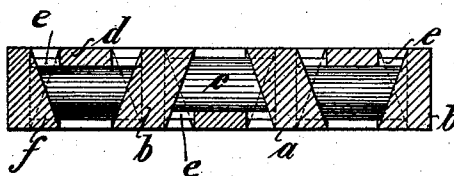


Fig.3.



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2 Sheets—Sheet 2.

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Fig. 4.

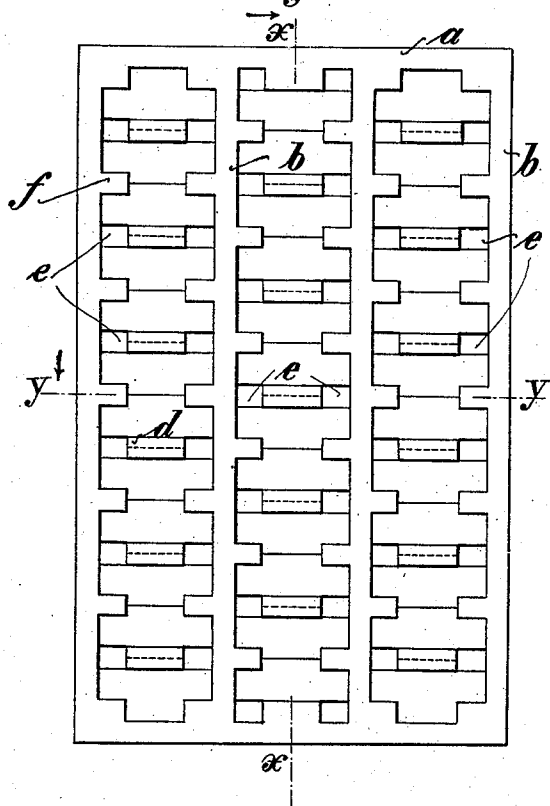


Fig. 5.

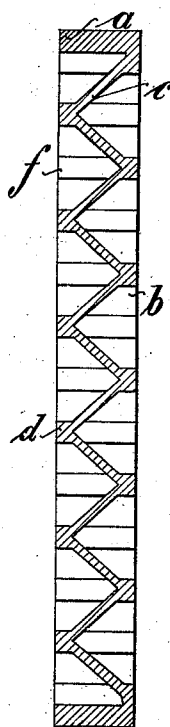
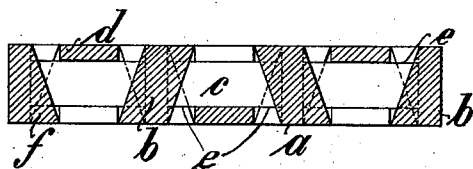


Fig. 6.



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UNITED STATES PATENT OFFICE.

FRIEDRICH WILHELM SCHNEIDER, OF TRIBERG, GERMANY.

PASTE-CARRYING MACHINE FOR ELECTRIC ACCUMULATORS.

SPECIFICATION forming part of Letters Patent No. 576,163, dated February 2, 1897.

Application filed January 13, 1896. Serial No. 575,296. (No model.)

To all whom it may concern:

Be it known that I, FRIEDRICH WILHELM SCHNEIDER, a subject of the Grand Duke of Baden, and a resident of Triberg, in the Grand
5 Duchy of Baden, in the Empire of Germany, have invented certain new and useful Improved Paste-Carrying Plates for Electric Accumulators, of which the following is a specification.

10 The present invention consists in improved paste-carrier plates for accumulator-batteries, and especially those used for the driving of vehicles or like purposes, which with proportionately little weight can be charged with
15 an increase of quantity of current of two to three amperes or more per square centimeter, and which is insensible to effects of sudden current variation, as the starting of a boat or a carriage which is driven by accumulator-
20 batteries. These results are caused by the particular construction of the paste-carrying plates, as shown in two forms in the annexed drawings, which give an extremely favorable distribution of the paste for diminishing the
25 internal resistance.

Figure 1 is a front view of such plate with undulating bands therein. Fig. 2 is a longitudinal section of the same. Fig. 3 is a cross-sectional view of the same. Fig. 4 is a front
30 view of a modification of the plate with bands of zigzag form therein. Fig. 5 is a longitudinal section thereof. Fig. 6 is a cross-sectional view of Fig. 4.

35 The plate is composed of a frame *a* in the form of a grate, the bars *b* of which are united by undulating bands, Figs. 1 to 3, or bands of zigzag form, Figs. 4 to 6.

Into the hollows formed by the bars *b* and

the bands *c* the paste is put. The projections
40 *f* of the bars *b* prevent the falling out of the paste.

To provide for the introduction of the counter form or mold necessary to form the projections *f* when casting the plate, the bands
45 *c* are provided with corresponding openings *e*.

To hold the paste on the exterior faces of the undulating bands *c* or those of zigzag form
(in the forms represented in Figs. 4 to 6) and to prevent the scaling off of the paste at those
50 places, the bands *c* are provided with vertical projections *d*.

Accumulator-batteries made up with the paste-holding plates above described can be charged and discharged in shorter time, and
55 for this reason and the reduction of the total weight below that of previously-used secondary elements they are especially suitable for driving vehicles.

I claim as my invention—

A paste-carrying plate for electric accumulators consisting of a frame *a* and parallel
60 bars *b* therein having lateral projections *f* and being connected each to the next by bridges *c* in form of undulating or zigzag bands said bridges having respectively on their front and
65 rear sides lateral openings *e* and central projections *d* perpendicular to the faces of the plate substantially as described and illustrated.

In testimony whereof I have signed this
70 specification in the presence of two subscribing witnesses.

FRIEDRICH WILHELM SCHNEIDER.

Witnesses:

KARL MÜLLER,
H. C. MORANO.