CLAIMS

1. A flow frame for a redox flow battery, the flow frame forming a rectangular cavity configured to receive at least one porous electrode, the flow frame comprising:

an inlet for receiving an electrolyte liquid;

a plurality of supply channels coupling the inlet to a plurality of supply channel openings arranged along a supply side of rectangular cavity;

an outlet for discharging the electrolyte liquid;

a plurality of discharge channels coupling the outlet to a plurality of discharge channel openings arranged along a discharge side of the rectangular cavity, the discharge side of the rectangular cavity being opposite the supply side; and

a divider running from the supply side of the rectangular cavity to the discharge side of the rectangular cavity which divides the rectangular cavity into sub-cavities,

wherein a length of the rectangular cavity corresponding to a length of the supply side and the discharge side is at least twice a width of the rectangular cavity corresponding to a separation of the supply side from the discharge side.

2. A flow frame according to claim 1, further comprising a plurality of vanes provided in front of the supply channel openings and / or the discharge channel openings.

3. A flow frame according to claim 2, wherein the vanes are provided in two rows in front of the of the supply channel openings and / or the discharge channel openings.

4. A flow frame according to claim 3, wherein the two rows of vanes are arranged in an offset manner.

5. A flow frame according to any one of claims 2 to 4 wherein the vanes have a length in a direction parallel to the supply side and the discharge side of the rectangular cavity which is greater than a width of the vanes in a direction perpendicular to the supply side and the discharge side of the rectangular cavity.

6. A flow frame according to claim 5, wherein the length of the vanes is at least 5mm and / or less than 20mm.

7. A flow frame according to claim 5 or claim 6, wherein the width of the vanes is at least 2mm and / or less than 8mm.

8. A flow frame according to any one of claims 2 to 7, wherein the vanes have a height of at least 1mm and less than 6mm.

9. A flow frame according to any preceding claim, wherein the discharge channels and / or the supply channels have a width of at least 1mm and / or less than 3mm.

10. A flow frame according to any preceding claim, wherein the discharge channels and / or the supply channels have a depth of at least 1mm and / or less than 3mm.

11. A flow frame according to any preceding claim, wherein each of the plurality of supply channels runs separately from the inlet to a respective supply channel opening of the plurality of supply channel openings.

12. A flow frame according to any preceding claim, wherein each of the plurality of discharge channels runs separately from a respective discharge channel opening of the plurality of discharge channel openings to the outlet.

13. A flow frame according to any preceding claim, wherein the flow frame is provided with a plurality of protrusions on sides of the rectangular cavity configured to engage with the at least one porous electrode.

14. A flow frame according to any preceding claim, wherein the flow frame is provided is provided with a plurality of protrusions on the divider and / or sides of the rectangular cavity, the plurality of protrusions configured to engage with the at least one porous electrode.

15. A flow frame according to claim 13 or claim 14 wherein the protrusions are rectangular or triangular in shape.

16. A flow frame according to any one of claims 13 to 15, wherein the protrusions extend into the cavity by at least 5mm and / or by less than 20mm.

17. A redox flow battery comprising a flow frame according to any one of claims 1 to 16.