



## Title

# INTERLEAVED VOLTAGE STEP-UP/STEP-DOWN ELECTRONIC CONVERTER



## Inventor/s - Contact

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## Patent/ Application number

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## Short presentation

The invention relates to an electronic converter with an interleaved structure intended for applications with electrical energy storage, renewable sources, electronic consumers, and electric vehicles, in which:

- the voltage value from the power supply is too low for the intended application, with operation in the input voltage amplification mode - voltage raising converter (Boost);
- the voltage value from the power supply is too high for the intended application, with operation in the input voltage attenuation mode - voltage step-down converter (Buck);
- energy circulation is bidirectional – voltage raising/lowering converter (Boost/Buck).



## Applicability

Electrical energy storage system; Renewable sources; Electronic consumers devices; Electric vehicles



## Images

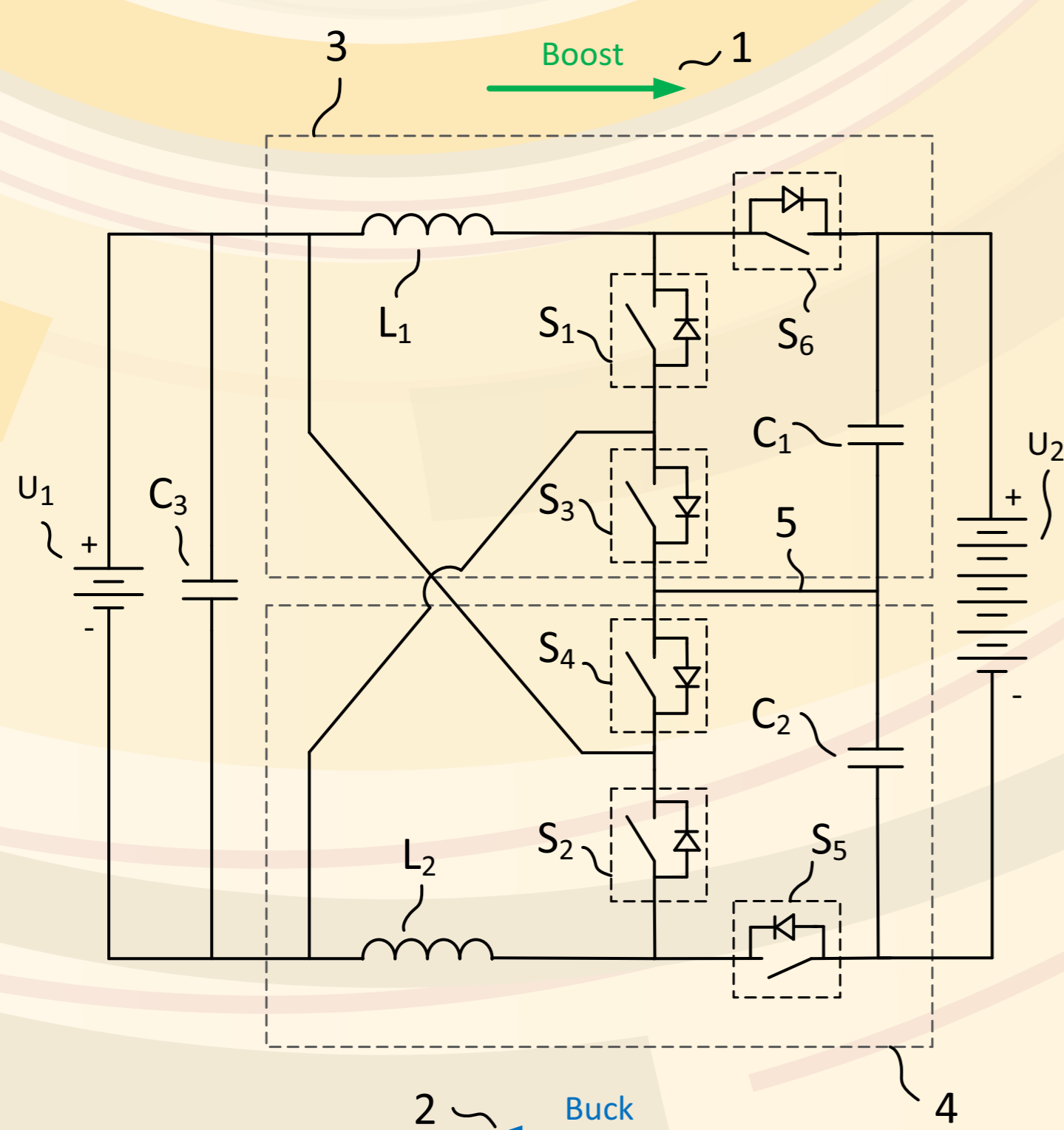


Fig. 1. Converter electronic schematics

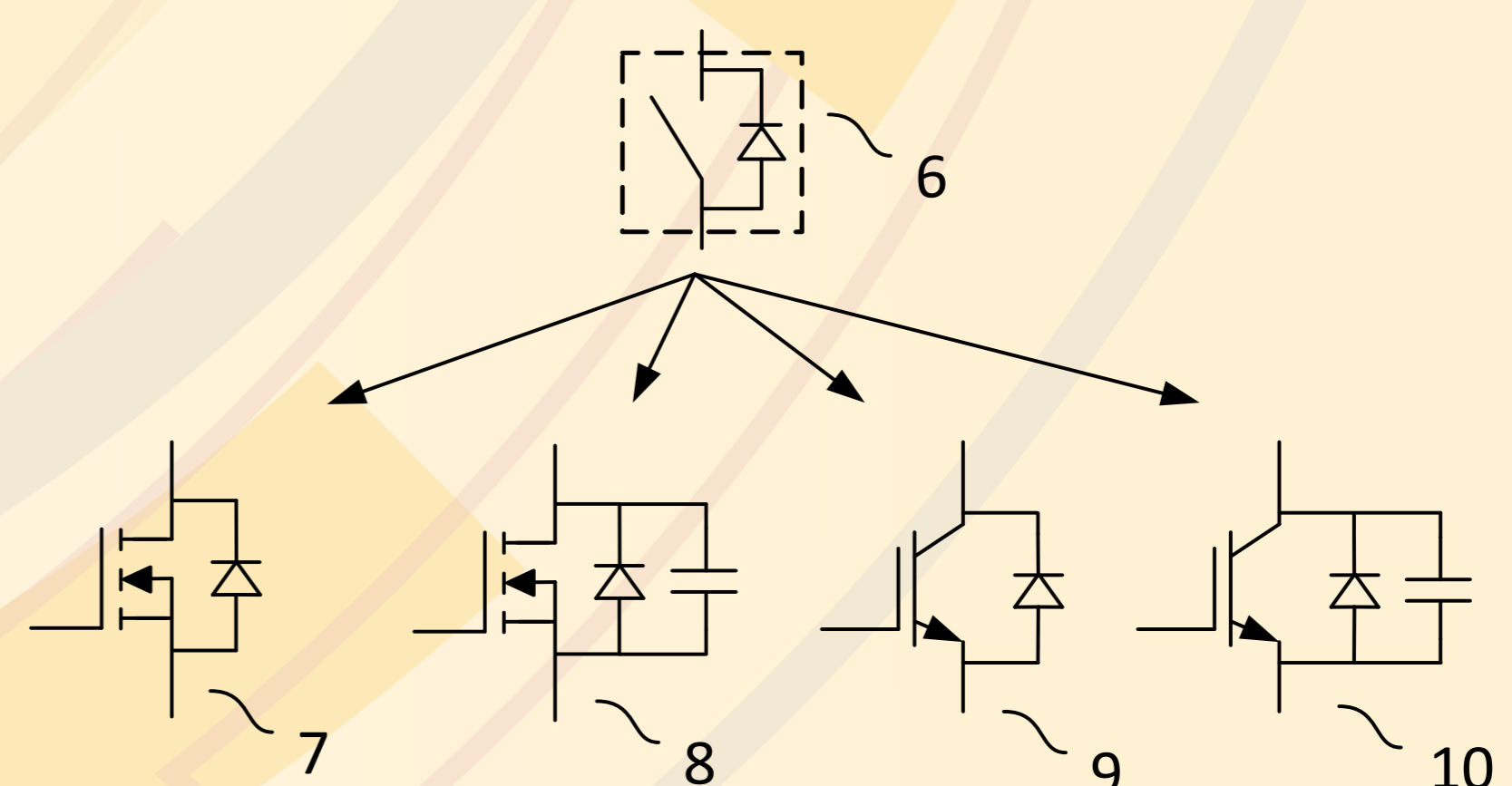


Fig. 2. Possible electronic components