

Title (en)  
MULTIPHASE INVERTER

Title (de)  
MEHRPHASIGER WECHSELRICHTER

Title (fr)  
ONDULATEUR POLYPHASÉ

Publication  
**EP 3329582 A1 20180606 (DE)**

Application  
**EP 16736110 A 20160706**

Priority  
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Abstract (en)  
[origin: WO2017016828A1] The invention relates to a multiphase inverter (10) for controlling a multiphase consumer (50), comprising multiple input terminals (25, 26, 27, 28) for connecting at least one first battery (21) and one second battery (22), as well as multiple phase outputs (51, 52, 53) for connecting the consumer (50), wherein a bridge circuit (31, 32, 33) with controllable switches (S1, S2, S3, S4, S5; S6, S7, S8, S9, S10; S11, S12, S13, S14, S15) is assigned to each phase output (51, 52, 53), via which switches the phase output (51, 52, 53) can be connected to different input terminals (25, 26, 27, 28). In addition, each bridge circuit (31, 32, 33) has an input switch (S1; S6; S11) connected to a first input terminal (25) and to the phase output (51, 52, 53), multiple node switches (S2, S3, S5; S7, S8, S10; S12, S13, S15) connected to the remaining input terminals (26, 27, 28) and to a node point (41, 42, 43), and an output switch (S4; S9; S14) connected to the node point (41, 42, 43) and to the phase output (51, 52, 53).

IPC 8 full level  
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