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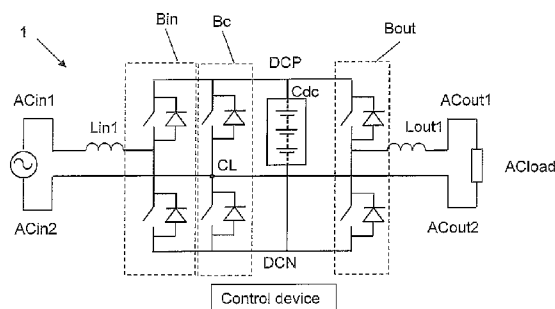
(54) Title: AC-AC CONVERTER DEVICE

Fig. 1: Prior art

(57) **Abstract:** The present invention relates to an AC- AC converter device (1), comprising first and second AC input terminals (ACin1, ACin2) and first and second AC output terminals (ACout1, ACout2). An input device (Bin) is connected between an input node (11), a common node (12), a positive DC terminal (DCP) and a negative DC terminal (DCN), where the input node (11) is connected to the first AC input terminal (ACin1) via a first input inductor (Lin1). An output device (Bout) is connected between an output node (13), the positive DC terminal (DCP) and the negative DC terminal (DCN), where the output node (13) is connected to the first AC output terminal (ACout1) via an output inductor (Lout1). A common device (Be) is connected between the common node (12), the positive DC terminal (DCP) and the negative DC terminal (DCN), where the common node (12) is connected to the second AC input terminal (ACin2) via a common inductor (Lc). A control device is provided for controlling the switches of the output device (Bout) and the common device (Be). The output device (Bout) comprises first and second output switches (Sout1, Sout2). The common device (Be) comprises first and second common switches (Sc1, Sc2). The second AC input terminal (ACin2) is connected to the second AC output terminal (ACout2). The input device (Bin) comprises first and second diodes (Din1, Din2) and a bi-directional switch (BS) connected between the input node (11) and the common node (12), where the control device is also controlling the bi-directional switch (BS).