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- (71) **Applicant:** ABB TECHNOLOGY LTD [CH/CH]; Affolternstrasse 44, CH-8050 Zürich (CH).
- (72) **Inventor:** LINDTJØRN, John; Hans Nielsen Hauges Gate 10, N-0481 Oslo (NO).
- (74) **Agent:** SAVELA, Reino; Abb Ab, Intellectual Property, Ingenjör Bååths Gata 11, S-721 83 Västerås (SE).
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(54) **Title:** A DC-POWER SYSTEM WITH SYSTEM PROTECTION CAPABILITIES

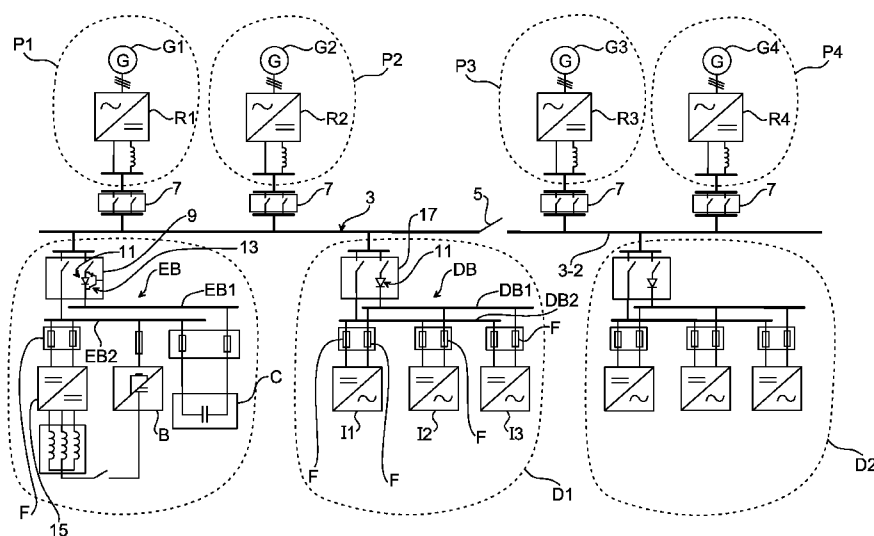


Fig. 1

(57) **Abstract:** It is presented a DC-power system (1) comprising a main DC bus(3), a power generating unit (P1, P2, P3, P4) arranged to feed the main DC bus(3), an isolator switch arranged (7) between the main DC bus (3) and the power generating unit (P1, P2, P3, P4) for isolating the power generating unit (P1, P2, P3, P4) from the main DC bus (3) in case of a main DC bus fault, a drive unit (D1, D2) arranged to be fed by the main DC bus, wherein the drive unit (D1, D2) comprises a drive unit bus system(DB), converter units (I1, I2, I3) connected to the drive unit bus system(DB), and fuses (F) arranged between the drive unit bus system (DB) and the converter units (I1, I2, I3) for protecting the converter units (I1, I2, I3) in case of a drive unit fault.