

ABSTRACT

SAFE AND ARM EXPLOSIVE TRAIN

The invention relates to a Safe-and-Arm system intended for the prevention of unintentional operation of an explosive device by interrupting a detonation train. This prevention is achieved by employing an interruptive transfer assembly made of silicon, suitable for implementing in a MEMS device. The assembly includes a silicon based transfer charge carrier on a porous explosive passageway is made by etching. The passageway extends between at least two ports on the circumference of the transfer assembly. A drive means can mechanically bringing about at least one armed state of a detonation train.