

Title (en)
DEVICE FOR INSTALLING A THERMOCOUPLE

Title (de)
THERMOELEMENTANORDNUNG

Title (fr)
DISPOSITIF D'AGENCEMENT D'UN THERMOCOUPLE

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Application
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Abstract (en)
[origin: WO0175367A1] The invention concerns means for the installation in an air-gas feeding duct, a standard thermocouple to provide both a cold safety function in case of extinction, and a hot safety function, without any additional device, in case of internal combustion. The downstream portion of the bulb side (4) of the thermocouple penetrates into the air-gas duct (2). Its probe tip (3) is immobilised against the inner surface of the diffusion chamber (5) at the centre of the combustion chamber (6). Its connector (16) is secured to its exit point from said duct (2) at a marker-projection (17) by a lock (15). The life span of the thermocouple is considerably increased through permanent cooling by the fresh air-gas mixture of the elements proximate to combustion. In case of internal combustion, the inversion of temperature gradients of the cold and hot junctions of the thermocouple causes the generated electromotive force to fall rapidly. The device is designed for high temperature confinement burners.

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