

Title (en)  
IONIZATION TYPE OF SMOKE SENSOR.

Title (de)  
RAUCHSENSOR DES IONISATIONSTYPUS.

Title (fr)  
DETECTEUR DE FUMEE DU TYPE A IONISATION.

Publication  
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Application  
**EP 83901734 A 19830607**

Priority  
JP 8351082 U 19820607

Abstract (en)  
[origin: WO8304449A1] This relates to an ionization type of smoke sensor for a fire alarm, and in particular to an ionization type of smoke sensor in which an internal ion chamber (a) consists of an inner electrode (6) and an intermediate electrode (8), and an outer ion chamber (b) consists of the intermediate electrode (8) and an outer electrode (11), these chambers (a, b) ionizing the air within them by a radiation source (3). In the ionization smoke sensor of this type according to this invention, the radiation source is difficult to contaminate. When smoke is actually applied during an operating test, in order that the smoke can diffuse immediately after the test and the operation can recover readily, the source (3) is surrounded by the inner electrode (6), a substrate (1), and a ring wall (2), the intermediate electrode (8) is supported by a plurality of posts (9) extending from the substrate (1), and holes (7, 10) are formed in the electrodes (6) and (8) so that the radiation from the source (3) can be emitted through the holes (7, 10) to the chambers (a, b).

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**G08B 17/10**; **G01N 27/64**

IPC 8 full level  
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**G08B 17/113** (2013.01 - EP US)

Citation (search report)  
• [Y] US 3935466 A 19760127 - TOMIOKA YUKIO  
• [A] US RE30323 E 19800701 - TOMIOKA Y  
• [Y] GB 2013393 A 19790808 - RADIOCHEMICAL CENTRE LTD  
• [A] GB 2010578 A 19790627 - RADIOCHEMICAL CENTRE LTD

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**EP 0111012 A1 19840620**; **EP 0111012 A4 19841211**; **EP 0111012 B1 19890809**; DE 3380374 D1 19890914; JP H029430 Y2 19900308; JP S58186463 U 19831210; US 4594512 A 19860610; WO 8304449 A1 19831222

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