Title (en)
Method for supervising and stopping the working of stoves in a safe manner, especially paraffin stoves and device for carrying out this method.

Title (de)
Verfahren zum Überwachen und sicherheitsmässigen Einhalten des Betriebs von kaminlosen Öfen, insbesondere von Petroleumöfen, und Vorrichtung zur Durchführung des Verfahrens.

Title (fr)
Procédé pour contrÔler et arrêter le fonctionnement des fours conformément à la sécurité notamment des fours à pétrole et dispositif pour exécuter ce procédé.

Publication
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Application
EP 90100344 A 19900109

Priority
DE 8900692 W 19891026

Abstract (en)
[origin: US5165883A] PCT No. PCT/DE89/00692 Sec. 371 Date Jul. 16, 1991 Sec. 102(e) Date Jul. 16, 1991 PCT Filed Oct. 26, 1989 PCT Pub. No. WO91/06808 PCT Pub. Date May 16, 1991.A process and apparatus for monitoring and ensuring safe operation of unvented kerosene heaters in indoor spaces detects the hazard of incomplete combustion and the concomitant reduced O_2 and increased CO_2 levels in the indoor air. CO_2 level in the indoor air is monitored quickly and accurately, - regardless of the burner's flame height. This is achieved by sensing O_2 level in the burner exhaust which is used as a measure for monitoring the CO_2 level in the indoor air and as a control signal. During burner operation outside a predetermined flame height range, the O_2 detection is used both for restoring a normal heating condition and for monitoring operation at minimum flame height and to generate a warning signal and a delayed automatic shut-down of the burner.

IPC 1-7
F23N 5/00

IPC 8 full level
F23N 5/00 (2006.01)

CPC (source: EP KR US)
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