

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
19 April 2001 (19.04.2001)

PCT

(10) International Publication Number
WO 01/26739 A1

(51) International Patent Classification⁷: A62C 3/07

(21) International Application Number: PCT/FI00/00865

(22) International Filing Date: 6 October 2000 (06.10.2000)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
19992172 8 October 1999 (08.10.1999) FI
19992257 19 October 1999 (19.10.1999) FI
19992312 26 October 1999 (26.10.1999) FI

(71) Applicant and
(72) Inventor: SUNDHOLM, Göran [FI/FI]; Ilmari Kiannon
kuja 3, FIN-04310 Tuusula (FI).

(74) Agent: KOLSTER OY AB; Iso Roobertinkatu 23, P.O.
Box 148, FIN-00121 Helsinki (FI).

(81) Designated States (national): AE, AG, AL, AM, AT, AT
(utility model), AU, AZ, BA, BB, BG, BR, BY, BZ, CA,

CH, CN, CR, CU, CZ, CZ (utility model), DE, DE (utility
model), DK, DK (utility model), DM, DZ, EE, EE (utility
model), ES, FI, FI (utility model), GB, GD, GE, GH, GM,
HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KR (utility
model), KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG,
MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD,
SE, SG, SI, SK, SK (utility model), SL, TJ, TM, TR, TT,
TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

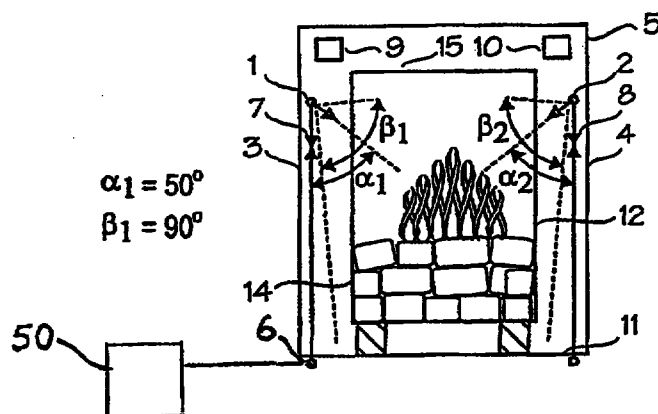
(84) Designated States (regional): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian
patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European
patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE,
IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG,
CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

- With international search report.
- Before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments.

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: INSTALLATION FOR FIGHTING FIRE



(57) Abstract: The invention relates to an instal-
lation for fighting fire in a space (5) for transporta-
tion of lorries, trailers and the like, the space be-
ing bounded by a first longitudinal side wall (3);
the installation comprising at least two spray heads
(1, 2) whereof the first spray head (1) is placed in
the space close to the first longitudinal side wall (3)
and obliquely directed downwards at an angle (α_1)
of 40 to 70° in relation to a vertical plane and the
second spray head (2) is placed in the space close
to a second longitudinal side wall (4) of the railway
carriage opposite the first side wall and obliquely
directed downwards at an angle (α_2) of 40 to 70°
in relation to the vertical plane, and a drive source
(50) for feeding extinguishing medium to said at
least two spray heads. In order to fight a fire effi-
ciently in a trailer or the like, the drive source is a
high pressure drive source (50) for feeding the ex-

tinguishing medium at a pressure of at least 15 bar; the extinguishing medium is a water-based extinguishing medium; and said two
spray heads (1, 2) are placed at a height of 3,2 to 4 m above the floor (11) of the space (5) and arranged to spray water-based extin-
guishing medium at a spread angle (β_1, β_2) of 45 to 120° and comprise at least two nozzles (20, 21) which are placed and directed
in such a way that the spray heads at high pressure provide, in the direction in which the spray heads are directed, a mist-like spray
with strong penetration power, and a suction at the respective spray head for sucking in flue gases into the spray of extinguishing
medium and for enhancing the vaporization of the extinguishing medium.