

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
15 April 2004 (15.04.2004)

PCT

(10) International Publication Number
WO 2004/031509 A3

(51) International Patent Classification⁷: F24F 7/02

(21) International Application Number:
PCT/US2003/031329

(22) International Filing Date: 2 October 2003 (02.10.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/415,475 2 October 2002 (02.10.2002) US

CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW.

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

(71) Applicant and

(72) Inventor: ROTTER, Martin, J. [US/US]; 115 Lismore Avenue, Glenside, PA 19038 (US).

Published:
— with international search report

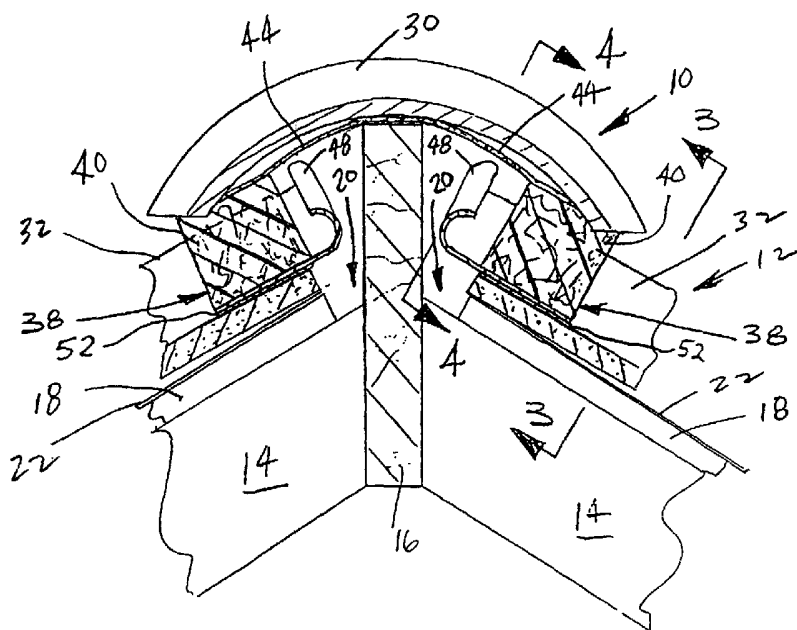
(74) Agent: HUIS, Randolph, J.; Volpe and Koenig, P.C., United Plaza, Suite 1600, 30 South 17th Street, Philadelphia, PA 19103 (US).

(88) Date of publication of the international search report:
18 November 2004

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,

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

(54) Title: CONTOURED VENTILATION SYSTEM FOR TILE ROOFS



(57) Abstract: A profiled ridge vent for tile roofs is provided having a vent strip located on each side of a roof ridge. Each vent strip includes a vent material, formed from a non-woven mat, including a first surface, contoured to a profile to match a profile of the tile roof, and a second surface. An upper water barrier is attached to the second surface of at least one of the vent strips and extends over the roof ridge. A water dam is attached to the first surface and extends in an up-slope direction toward the roof ridge. In use, a first vent strip is located on a first side of a roof ridge pole, and a second vent strip is located on a second side of the roof ridge pole.

WO 2004/031509 A3

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/31329

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : F24F 007/02
 US CL : 454/364-366; 052/199

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 U.S. : 454/364-366; 052/199

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
 NONE

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
 EAST

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 1,717,728 A (MOORE) 18 June 1929 (18.06.1929), See the entire document.	1-32
A	US 5,676,597 A (BETTOLI et al.) 14 October 1997 (14.10.1997), See the entire document.	1-32
A	US 6,015,343 A (CASTILLO et al.) 18 January 2000 (18.01.2000), See the entire document.	1-32
A	US 6,286,273 B1 (VILLELA et al.) 11 September 2001 (11.09.2001), See the entire document.	1-32

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

25 May 2004 (25.05.2004)

Date of mailing of the international search report

02 SEP 2004

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US
 Commissioner for Patents
 P.O. Box 1450
 Alexandria, Virginia 22313-1450

Facsimile No. (703) 305-3230

Authorized officer

Linda Sholl
 Linda Sholl

Telephone No. 703 308 1148