



(1) Publication number:

0 403 979 A3

EUROPEAN PATENT APPLICATION

(21) Application number: 90111348.0

② Date of filing: **15.06.90**

(51) Int. Cl.⁵: **B28B 3/02**, B28B 7/10, B28B 11/14, B28B 11/12, B28B 3/12

Priority: 19.06.89 JP 154633/89
 25.07.89 JP 190497/89
 25.07.89 JP 190498/89
 25.01.90 JP 13494/90
 25.01.90 JP 5102/90

Date of publication of application:27.12.90 Bulletin 90/52

Designated Contracting States:

BE CH DE DK ES FR GB IT LI

Output

Designated Contracting States:

Designated Contractin

Date of deferred publication of the search report:

22.01.92 Bulletin 92/04

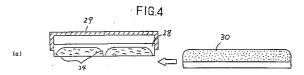
71) Applicant: ASK CORPORATION 5-5, Tsurumichuo 2-chome Tsurumi-ku Yokohama-shi Kanagawa-ken(JP)

2 Inventor: Kusunoki, Kokyo
596-172 Ushikucho
Ushiku-shi, Ibaragi-ken(JP)
Inventor: Suzuki, Hiroshi
975-1 Miyazawacho, Seya-ku
Yokohama-shi, Kanagawa-ken(JP)
Inventor: Morohashi, Kenji
13-1 Tokodai 4-chome
Ishioka-shi, Ibaragi-ken(JP)
Inventor: Akimoto, Yukio
15-1 Ichikawa 2-chome
Ichikawa-shi, Chiba-ken(JP)

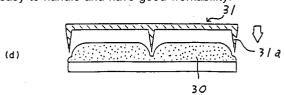
Representative: Strehl, Schübel-Hopf, Groening Maximilianstrasse 54 Postfach 22 14 55 W-8000 München 22(DE)

[4] Inorganic cured shape and method of producing the same.

(57) In the production of inorganic cured shapes for use as roof ing, exterior walls, and interior walls, an inorganic molded material is formed and patterned using an air-permeable mold ing die (29, 28) to improve their releasability. The molded material (30) is pressure molded using a molding die having a projection (34) which forms a groove. Thereafter,



these shapes are cut along the groove by a cutter (31). If a slit portion is formed in the inorganic molded material, a cutter or a cutter blade unit having a pusher cuts or punches the in organic molded material to produce the shapes having cutting grooves on the surface, whereby the shapes are easy to handle and have good workability.





EUROPEAN SEARCH REPORT

EP 90 11 1348

				EP 90 11 134	
	DOCUMENTS CON	SIDERED TO BE RELEVA	NT		
Category	Citation of document with of relevant	h indication, where appropriate, passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)	
Х	US-A-4 413 966 (V * Figure 1; column	VALLACE MURRAY CORP.) n 6, lines 16-44 *	1-4	B 28 B 3/02 B 28 B 7/10	
х	US-A-2 733 493 (F * Figures; claim]	RAM INC.)	1-4	B 28 B 11/14 B 28 B 11/12 B 28 B 3/12	
х	FR-A-1 400 411 (F	RIETER-WERKE KONSTANZ)	1,2	D 20 B 3/12	
A	DE-C- 285 341 (6 * Page 1, lines 40	EORG KOCH) 1-51; figures *	3,4		
ĺ	GB-A- 938 240 (F * Figures; page 2, line 3 *	ETOK GmbH) line 91 - page 3,	3,4		
	•			TECHNICAL FIELDS SEARCHED (Int. Cl.5)	
				B 28 B	
	The present search report has	neen drawn up for all claims			
	Place of search				
THE HAGUE		Date of completion of the search 08-07-1991	LANAS	Examiner SPEZE J-P.Y.	
CATEGORY OF CITED DOCUMENTS X: particularly relevant if taken alone Y: particularly relevant if combined with another document of the same category A: technological background O: non-written disclosure P: intermediate document		E: earlier patent d after the filing other D: document cited L: document cited &: member of the	T: theory or principle underlying the invention E: earlier patent document, but published on, or after the filing date D: document cited in the application L: document cited for other reasons &: member of the same patent family, corresponding document		

EPO FORM 1503 03.82 (P0401)

EP 90 11 1348

	CL.	AIMS INCURRING FEES
The	presen	t European patent application comprised at the time of filing more than ten claims.
[All claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for all claims.
[Only part of the claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claims:
[No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.
		CK OF UNITY OF INVENTION
The S inven name	tion an	Division considers that the present European patent application does not comply with the requirement of unity of d relates to several inventions or groups of inventions,
	See	sheet -B-
		·
		·
		All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
	_	Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid,
	1	namely claims:
X	Τ,	None of the further search fees has been paid within the fixed time limit. The present European search report
<u> </u>	ŀ	has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims,
		namely claims: 1-4



LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirement of unity of invention and relates to several inventions or groups of inventions, namely:

- Claims 1-4: Method for releasing a molded product from the mold.
- 2. Claims 5-9: Methods for cutting a molded product.