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02.01.91 Bulletin 91/01(71) Applicant: **ALUMINIA S.p.A.****I-09010 Portoscuso (Cagliari)(IT)**(72) Inventor: **Atzori, Claudio**
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BREVETTI EUROPA S.r.l. Piazza Bernini, 6
I-20133 Milano (MI)(IT)(54) **Continuous extruder for recovering the scraps originating from the machining of aluminum and its alloys, with production of extruded semifinished articles.**

(57) A continuous extruder for recovering, as continuous semifinished articles, the scraps deriving from the machining of aluminum and its alloys, in which the matrix (5) and at least a portion of the tools comprising the inlet plates (9) and (10), the tight sealing plate (11), the feed plate (4) and the stop element (6) are made from a ceramic material selected from the group comprising the materials based on aluminum and silicon nitrides and oxides commonly denominated SIALON, and the materials based on zirconium oxide, with said matrix and said tools of ceramic material being associated with an extruder having such a structure as to generate high specific pressures and high temperatures by internal friction, so as to make it possible said semifinished articles to be extruded according to a direct, continuous extrusion method, with semifinished articles being produced.

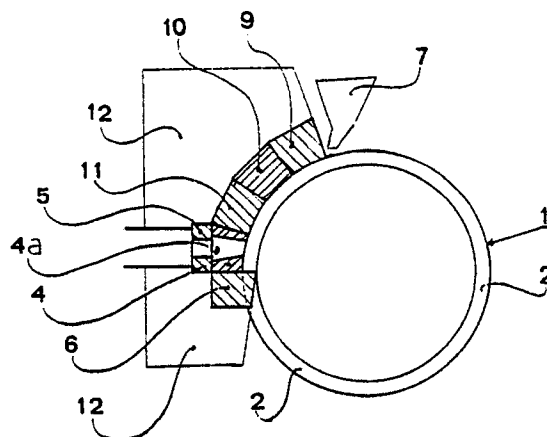


Fig. 3

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EUROPEAN SEARCH REPORT

Application Number

EP 89 11 7010

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
X,Y	PATENT ABSTRACTS OF JAPAN vol. 008, no. 140 (M-305) 29 June 84, & JP-A-59 039416 (SHIN NIPPON SEITETSU KK) 03 March 84, * the whole document * - - -	1-3,6,4,5	B 21 C 23/00
Y,A	PATENT ABSTRACTS OF JAPAN vol. 6, no. 186 (C-126)(1064) 22 September 82, & JP-A-57 98666 (HITACHI DENSEN KK) 18 June 82, * the whole document * - - -	4,5,1	
A	DESIGN ENGINEERING. April 1982, LONDON GB pages 18 - 23; "Wire production from swarf or scrap" * page 18, column 1, paragraph 2 - page 18, column 2, paragraph 1; figures * - - - - -	1,4,5	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			B 21 C
The present search report has been drawn up for all claims			
Place of search		Date of completion of search	Examiner
The Hague		06 November 90	BARROW J.
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 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			