

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

G00002

(43) International Publication Date
12 September 2002 (12.09.2002)

PCT

(10) International Publication Number
WO 02/070768 A3(51) International Patent Classification⁷: **C22C 38/44**,
38/52, C21D 9/00, 6/00, A63B 53/04(74) Agents: **PACE, Vincent, T.** et al.; Dann, Dorfman, Her-
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(21) International Application Number: PCT/US02/06308

(22) International Filing Date: 28 February 2002 (28.02.2002)

(81) Designated States (*national*): CN, JP, SG.

(25) Filing Language: English

Published:

(26) Publication Language: English

— 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(30) Priority Data:
60/272,976 2 March 2001 (02.03.2001) US(71) Applicant: **CRS HOLDINGS, INC.** [US/US]; 209F
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19810 (US).(88) Date of publication of the international search report:
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Sinking Spring, PA 19608 (US).*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.*

162162

WO 02/070768 A3(54) Title: A CAST SHAPED ARTICLE MADE FROM HIGH STRENGTH, PRECIPITATION-HARDENABLE STAINLESS
STEEL AND A PROCESS FOR MAKING SAME

(57) Abstract: A shaped article which is manufactured by casting in air or under inert-gas shrouding at atmospheric pressure is disclosed. The shaped article provides a superior combination of high strength, hardness, ductility, and corrosion resistance compared to the known air castable stainless steels. A cast article in accordance with this invention is made from a high strength, air stable, stainless steel alloy having the following weight percent composition C 0.1 max., Mn 2 max., Si 1 max., P 0.05 max., S 0.05 max., Cr 9-13, Ni 4-8, Mo 4-8, Co 8-16, N 0.1 max. The balance of the alloy is essentially iron and the usual impurities. A process for making such an article is also described.