



Ministero dello Sviluppo Economico
Direzione generale per la lotta alla contraffazione
Ufficio Italiano Brevetti e Marchi

ATTESTATO DI BREVETTO PER INVENZIONE INDUSTRIALE

N. 0001383709

Il presente brevetto viene concesso per l'invenzione della domanda sotto specificata:

num. domanda	anno	C.C.I.A.A.	data pres. domanda	classifica
000063	2007	ANCONA	04/12/2007	F04B

TITOLARE/I S.TRA.TE.G.I.E. S.R.L.
ANCONA

DOM. ELETT. S.TRA.TE.G.I.E. S.R.L.

INDIRIZZO VIA ZUCCARINI 1
60100 ANCONA

TITOLO IMPIANTO AD ALTA EFFICIENZA ENERGETICA PER COMPRESSIONE
DI METANO PER AUTOTRAZIONE.

INVENTORE/I BARTOLINI CARLO MARIA
MARCANTONI MICHELE
USCI ROSALINO

COPIA CONFORME ALL'ORIGINALE
DIGITALMENTE FIRMATO DAL
RESPONSABILE DEL SERVIZIO
E CONSERVATO DALL'U.I.B.M.

Ancona, il13 GEN 2011.....

Il Funzionario Incaricato
Maria Grazia Cassettari



Roma, 23/12/2010

IL DIRIGENTE
Dr.ssa Loredana Guglielmetti

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
11 June 2009 (11.06.2009)

PCT

(10) International Publication Number
WO 2009/072160 A2

(51) International Patent Classification:
F04D 17/04 (2006.01) F04D 29/58 (2006.01)
F04D 27/02 (2006.01)

(74) Agent: MONTEBELLI, Marco; C.P. 155, 47900 Rimini (RN) (IT).

(21) International Application Number:
PCT/IT2008/000736

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(22) International Filing Date:
1 December 2008 (01.12.2008)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
AN2007A0000063
4 December 2007 (04.12.2007) IT

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicant (for all designated States except US):
S.TRA.TE.G.I.E. S.R.L. [IT/IT]; Via Zuccarini, 1,
60131 Ancona (AN) (IT).

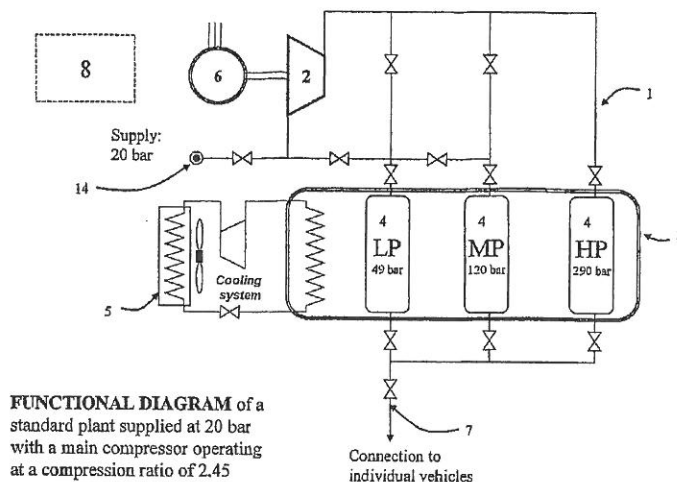
(72) Inventors; and

(75) Inventors/Applicants (for US only): BARTOLINI, Carlo Maria [IT/IT]; Via Piave, 24, 60019 Senigallia (AN) (IT). MARCANTONI, Michele [IT/IT]; Via della Baviera, 6, 60020 Polverigi (AN) (IT). USCI, Rosalino [IT/IT]; Via Clementina, 10, 60035 Jesi (AN) (IT).

Published:

— without international search report and to be republished upon receipt of that report

(54) Title: HIGH-ENERGY EFFICIENCY PLANT FOR AUTOMOTIVE METHANE COMPRESSION



FUNCTIONAL DIAGRAM of a standard plant supplied at 20 bar with a main compressor operating at a compression ratio of 2.45

Connection to individual vehicles

Figure 2

(57) Abstract: A gas compression plant (1) including at least a gas compressor (2) and at least a cylinder casing (3) is disclosed. The compressor (2) completely compresses the gas via at least two consecutive compression stages. The cylinder casing (3) contains as many cylinders (4) as the compression stages, the compressed gas being stored in the cylinders (4) substantially at the maximum pressure achieved in each compression stage. The gas compression plant (1) comprises means to feed the compressor (2), prior to the execution of each consecutive stage, with gas from the previous compression stage, stored in the respective cylinder (4).

WO 2009/072160 A2