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INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : E21B 43/117		A1	(11) International Publication Number: WO 96/38652
			(43) International Publication Date: 5 December 1996 (05.12.96)
(21) International Application Number: PCT/US96/07556		(81) Designated States: AM, AZ, BR, BY, CA, CN, CZ, DE, DK, ES, GB, GE, HU, JP, KZ, LV, MX, NO, PL, RO, RU, SG, SI, SK, TJ, TM, TR, TT, UA, UZ, VN, Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).	
(22) International Filing Date: 31 May 1996 (31.05.96)		Published <i>With international search report.</i>	
(30) Priority Data: 08/459,509 2 June 1995 (02.06.95) US 08/626,392 29 March 1996 (29.03.96) US			
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(54) Title: SPIRAL OR WAVE STRIP PERFORATING SYSTEM

(57) Abstract

A perforating gun (33) having an elongated mounting strip (35) and a selected wave or non-linear, zig-zag form as seen in a plan view, with an outer surface diameter sized for convenient insertion and removal from a well. The mounting strip (35) has a series of openings spaced in intervals for mounting capsule explosive charges (49) in a phased relationship between 0 and 360 degrees. The cross-sectional area of the mounting strip (35) around each opening is selected to prevent fragmentation of the carrier upon detonation of the charges. The mounting strip (35) is preferably metallic with a selected amplitude and wavelength. In each opening is an explosive charge (49) with a hollow cap (51) with a nose (53) for attachment to one of the openings. The cap (51) has an annular, interior thread with a thread run-out (61) of selected width. The explosive capsule (49) has a hollow body having an open end with exterior threads (59) and a width less than the width of the thread run-out (61) in the cap (51) to permit free spinning of the body in the cap (51) after thread makeup for convenient threading and connection with the detonating cord (43).

