

Doctor Gatling's Enduring Legacy Richard Jordan Gatling's revolving gurn stand out as the oldest type currently in

by Robert Bruce

to obtain a simple, compact, durable, and efficient firearm for war purposes, to be used either in attack or defense, one that is nary field-artillery, that is eas ily transported, that may be rap idly fired, and that can be oper-

Gatling Revolving Battery Gun Patent Application, granted 14

Right: Fort Bragg, NC, Summer

1982. The M167 towed air defense run is a radar-aimed 20mm M61 Vulcan on a trailer mount as used by the 82nd Airborne Division. It can fire bursts of 10, 30 or 60 rounds at either 1000 or 3000 rounds per minute. Credit: Robert Bruce

M2HB machine gun has the distinction of by external power, modern Gatlings fro the longest continuous service of any "The object of this invention is





Vulcums, Warthogs and Goalkeepers

New built by General Placetic on a novel operating principle dating back more than a century to the American Civil War. some of the best known of today's Gatlingtype weapons include the diminutive 5.56mm Six-Pak (Experimental only), the incomparable 7.62mm Minigun as first used on "Puff the Magic Drazon" flying gunships in Victnam (Now manufactured by Diffon Aéro), the 20mm Valcan aircraft

and air defense gun, and the formidable JOHN GAU-8 in tack-busting A-10 War-One featers US Novy warships are protected from

sea skimming Export-type guided missiles by the GE/Signaal Goalkerner (now Ockfly (and we Rebels take some comfort known as the Phalona) that can send out a in this), by the end of the War of Northern entar suided stream of 30mm lead at the Aggression the Federals had bought only incredible rate of over 4000 rounds per about a diseas racer despite favorable test

Support alregalt, Credit: Extrebild Republic Co.

seems likely to replace the Garlings' raft, it may not be abound to expect this archaic instrument to still be going strong on the 200th anniversary of its patent!

deadly efficiency amatime more. As a re-Vankers and Indiana

Remarkably, many military armoments pecialists say that no other conventional

recognition belief hose on the horizon

Dr. Gutling himself, a North Carolin-

iss who studied but never practiced medicine, inexplicably turned against his Southern breduen when he sold his first handcranked Revolving Buttery Gun in 1862 to Abraham Lincoln's Navy for testing

longer range and stopping power over the 20mm Phalonx system. results and vigorous efforts by the root doctor and his influential friends and fi

nancial backers. While some are reported to have been

Left: Goalkeeper sales brochure. The Mron GALLA has siquiffen

used by the notorious General Benjamir "Beast" Burley against Confederates in the horribly inhumane siege of Petershore Virginia, the guts were mostly said to be not much more than an arraging newelry

and no effective tectical employment re-Despite what should have been obvicsus penertial for buttlefield efficiency and mechanical reliability thanks to newly developed metallic catridges, Gatino's "bullet organ" apparently failed to impress Union generals in the field or the War Department in Washington, Undageted.

Gutling monaged shortly after the war's end to sell about 115 of the increment 56 caliber and one inch (25mm) Model of tier. The Army was in a tight spot and recorded theme to prosteet intrustive form and illegal settlements on the properties real estate of Native Americans (imensitively

culted "Red Indians" at the tirre) who were understandably urnet with the Flore imparialists for overrunning their ascentral Curiously, reliable reports of actual combat use of Gutlings out West are virtu-

ally non-existers and they are perhaps most farmous for their absence at the manager of General George Armstrone Center's 2th Cavalry at the Linte Big House in 1976. Now wanting his column slowed down by the somewhat cumbersome horse-drawn gans. Custer chose to leave all four behind. The





rest, as they say, is history Machine Gun Parker

Although reglected and even disdained

by senior military leaders at the time, at least one junior officer keet Getling's rotating machine

rifle alive. lat Lieurecount John H. Parker made such a ressauce of him-

The Moura General Vlactele ternally powcred seven-barrel Catling weapon demem cembina. tion of size weight, drive nower and rate

of fire required for the A-10 "Warther." Candie. CE An 1893 photo portrait of Dr. Richard Jordan Gutlinz with the little Model 1893 "Bulldor" version of his rymarkable

periors for consideration of was to capitalize on the Army's new found increase in the combet utility of rapid fire his ideas on tactical employment that he soon curred the

eifle caliber weaponry. The old fashioned. hand-cranked Gutlings were relegated to defense of stateside forts and were finally declared obsolete at the end of WWI, falling into nearly total obscurity for decades. Electric Power

In an interesting aside to the historical second it should be noted that the indefinigable Doctor Garling had conclusively

demonstrated the estenishing firepower ponential of his device in 1890 by rigging it with one of Mr. Edison's newfargled electric motors. It reportedly fired at the arresting rate of 1500 spen, with subsequent tests yielding bursts of up to 3000 rpm Problem was, notody at the time really needed this coully and dizzying volume of fire so the experiment soon faded away Ab, but things charge.... Jet Age Gatlings

stroduced toward the end of WWII

ross, chambered for the A5/70 Government cartridge. Credit: US Naval Historical Center self in pressing his Army su fired) invented by Hirzm Stevens Maxim.

in the most famous engage ment of the Sponish-Amer con War when he superbly 30 caliber Gatlings in support of Teddy Roosevelt's assault of San Juan Hill. Securing the forward slope with an almost continuous towers of lethal lead rain deons. Parker's Gatlings below! keen the well-duz-in enemy from effectively fir ing on the attacking Rough Riches This victory - her. alded in honner headlines around the world - vindicated the nervin



derisive nickname of "Ma-

tenant soon got the last laugh

chine Gun Parker." However, the young how



fights and strafing runs. Most simply put, even when the fastest firing single berrel guts were crowded into multiple mounts. they just couldn't put out enough lead in the floating seconds of target exposure. What to do? As luck would have it, somebody in the

program remembered Garling's electric motor experiments more than a half-century before. By 1950, the General Electric company was well along in development of what was soon to become colorfully known as the VULCAN, a 20mm revolving carnon capable of firing bursts at 100 rounds per second!

Automotic Gus, the Vulcan was first installed in the F-104 Starfighter and went on to distinguished service in many other airframes. It also found embusiastic acceptance as a radar-aimed anti-aircraft man and rides in many different beliconters as primary ammenent and smaller versions in Dexible door mounts. Various models in a name of calibers and applications carry inspirite names like Avenger, Equalityer and Phalant in American and allied service worldwide Colonel George M. Chinn, nerhons the

free world's most respected authority on automatic gun systems, gives this product of the good doctor's inventive genius a mental five-volume series THE MA-CHINE GUN

first and foremost acclamations for his insight of modern military weapon needs when he nurtured his famous invention with conceptual and persevering skills to that overtieth century man could take his gifts and build on them as has been done in the defense of our grateful country and

Primary Reference Sources

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Credit: Fairchild Republic Co.

