Henry Nock, Innovator 1741–1804

Peter S. Wainwright

Of the comparatively little known about Henry Nock, much has come from the research and writings of Howard L. Blackmore. In 1955 and 1956, he submitted articles to the "Journal of the Arms and Armour Society." The first was entitled *The Seven Barreled Guns of Henry Nock* and the second, *The Experimental Arms of Henry Nock*. These two monographs later formed the backbone of Chapter V of his seminal work, "British Military Firearms 1650–1850" first published in 1961. Chapter V was the only one of twelve devoted to a single gunmaker.

The 1956 article started out with the statement:

"Arms historians have dealt shamefully with that great London gunmaker, Henry Nock. Credit for the invention of a gun has been given him when he was no more than the maker, and conversely, the lock which he worked so hard to perfect has been denied him."

The "gun" in question illustrated in Figure 1 is, of course, the seven barrel volley gun "invented" by one James Wilson who was paid for his idea, though it was improved upon and made in quantity by Nock. The "lock," Figures 2 and 16, often attributed to a George Bolton who patented a somewhat similar item, was developed and perfected independently by Nock over a period of time and made in quantity by him. The Bolton myth persists to this day as evidenced in a recent arms auction catalogue where one who should have known better mislabeled a Nock screwless lock mounted on a volley gun as a "Bolton Lock."

A surprising though likely reason that Nock was less touted by arms writers of the period than were some of his peers, was his much wider range of talents. Most fine gunsmiths, with few exceptions (Durrs Egg is one) catered almost exclusively to the elite by crafting relatively few costly, custom, graceful and artistic sporting guns, thus making the "society," sporting and even technical pages. Often very little net money accrued to such craftsmen for their labor intensive creations. Besides, some of the elite had a larger appetite than budget for such amenities and were slow to pay; they may have considered their endorsement-by-patronage as adequate compensation.

Henry, while he did craft some very fine showy pieces, was far more versatile. He, unlike most of his peers, was also



an engineer and tool and gauge maker as well as an experimenter, innovator, inventor, successful businessman and as we shall see later a remarkably enlightened employer.

Born in 1741, he became a gun locksmith at a time when the Crown for the most part bought locks, stocks and barrels separately from numerous artisans and subsequently assembled military arms in The Tower as needed. In 1775, he took out Patent No. 1095 (Appendix A) with several unique claims as to eliminating the flash and "smoak" of ignition and ease of disassembly and cleaning. Because he was not as yet accepted into the Gunmakers Company, and would not be so recognized for some years, this was done in partnership with a Master (of the Gunmakers Company) William Jover and a "gentleman" named Green. A few guns marked "Nock, Jover & Co.", survive² and his later trade card pictures one of them.

But note the year, 1775. England was slipping into war with her thirteen North American colonies, thus offering boundless opportunities for an enterprising, up-and-coming arms maker. Blackmore owned a Ferguson type rifle (probably not patentable because the principal had been adopted from an earlier French design) with an improved lock by Nock dated 1776. In that year the Ordinance Department advanced him £200, thus enabling our lockmaker to fabricate bayonets. In addition, during '77 and '78 he put in long hours at his regular trade of locksmithing.

In 1779, Board of Ordinance records show that "James Wilson, Esq. presented a new Invented Gun with seven bar-



Figure 1. 1st. Mod. Royal Navy 7 Bar. Volley Gun Patt. 1779, by H. Nock, Collection of P.S. Wainwright.

rels to fire at one time."³ The concept was not new, having been around for over 300 years so he did not patent it. Wilson's updated ideas and Nock's execution of them produced a workable piece. The Royal Army was not interested,

5, 56. Cavalry posited of 1796 for the 2nd rigiono Guards, with the screwiess, toked fittitleds invested by Henry tok. the London guaranker, in 1796, may find the work that to the 1786, may find the work lable to break. While a sportsnan could mend his lock at surer, the soldier in the field was remained on the services all an armourer if thy special tokes, and these were not smanted easily without tools. The new cit was adopted by the British Army and led to a new form of musker. A smaller revision was made for pictols which were not smanned castly without tools. The new cit was adopted by the British Army and led to a new form of musker. A smaller revision was made for pictols which were first the services of the services

Figure 2. Patt. 1796 Cavalry Pistol of 2nd Dragoon Guards/dismantled Screwless Lock by H. Nock. Royal Armouries Collection/H. L. Blackmore, *English Pistols, Arms & Armour Press, Lond. 1985.*

but the Royal Navy could envision its use from high in a ship's fighting tops.

Wilson received an order for two more guns, and lock-smith Nock, by now also a budding gunsmith, was given the assignment. They were rifled, and with the charge of special powder specified, kicked worse than any Missouri mule, not a desirable characteristic when firing from a precarious perch high in the swaying rigging during the heat of battle. Changing to smoothbores and reduced charges of common powder helped somewhat. Mr. Wilson was paid £400 for his ideas. Following sea trials with twenty more such Nockmade volley guns, Henry underbid others to win a contract for 500 guns, one of which is shown in Figure 1.

The guns were still brutes to shoot, and concerns about the possibility of starting a fire in the rigging with their considerable muzzle blast limited their use, though "... they were issued to Howe's fleet when it sailed for the relief of Gibraltar in 1782, (and) ... they formed part of the armament of HMS Pandora when searching for the mutineers of HMS Bounty in the South Seas in 1791."⁴

The peace that followed our Revolution brought slow times to the gunmakers trade. Though Nock placed only six more of the 1st Model Volley Gun with the Royal Navy, his fine reputation as a lockmaker kept him in good stead, as the Navy ordered "... heavy brass locks for 3-, 6-, 9-, and 12-pounder guns at 14s each."⁵

With limited demand for military arms, Nock and others made some smooth bore and rifled volley guns for the sporting trade. The gun shown in Figure 3 was part of the collection of our late member Clay P. Bedford, and it will not take a back seat in quality to the guns of other better known and connected makers. I have seen one Forsyth with "scent-

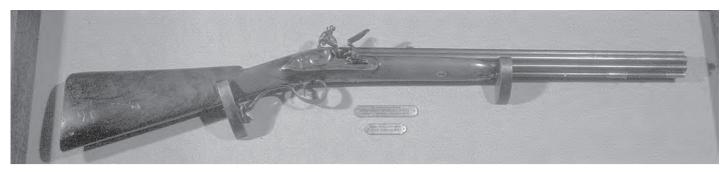


Figure 3. Sporting Model 7 Bar. Volley Gun by H. Nock, Collection of P. S. Wainwright/Ex. C. P. Bedford.

bottle" ignition and Clay had others, but any civilian volley guns were and remain rare.

Nock had leg up on the competition because of his manufacturing experience for the Royal Navy, plus he was commissioned to make an exquisite set of a volley gun and a volley pistol for the Royal Household which remain today in the Queen's collection. He also experimented with means of rotating the 7-barrel cluster and firing them one at a time, thus anticipating the "pepperbox" by some 30 or 40 years.

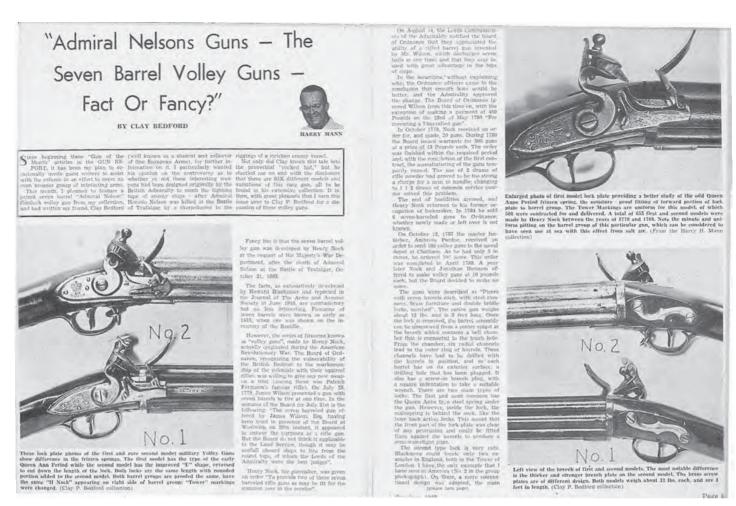
In a period when shotgun barrels were not choked and muzzle loaded charges lacked the present day plastic cup/wads, which contain and control the shot column while in the barrel, one can surmise that seven barrels skillfully united in near perfect parallel would pattern seven 32 bore balls (.505 cal.) far more uniformly and with greater velocity. As warships grappled, a single such discharge from aloft

could wreck havoc among a covey of "brass", the command and control, centered on an enemy's quarterdeck. A charge fired in the direction of a sniper in the other's rigging was more likely to score than a single musket ball or even "buck and ball". A heavier and less graceful weapon, to be sure, but at the relatively short ranges involved when opposing ships were secured together with grappling hooks and lines, the volley gun was capable of inflicting greater harm than conventional shoulder arms.

An order for another one hundred Naval Volley Guns was received by Nock in 1787 and completed in April of '88 Figure 4. Whether these were at the same or a higher price per unit is in dispute, but the ever innovating Nock made what he felt were improvements. A glance at the frizzen spring alone is enough to show that he was always searching for a better design. This Second Model was one of Clay



Figure 4. 2nd. Mod. Royal Navy 7 Bar. Volley Gun Patt. 1788, by H. Nock, Collection of P. S. Wainwright/Ex C. P. Bedford.



Figures 5 & 6. Gun Report, Oct 1967, C. P. Bedford Article on Admiral Nelson's Volley Guns.

Bedford's favorite pieces and one of only three known survivors of the 100 produced. The other two reside in the Royal Armoury collection.

Homely as they were, Clay was most fond of his little seven tube monsters, and included his with many beautiful civilian flint weapons in a memorable Metropolitan Museum of Art exhibit recorded in their publication, *Early Firearms of Great Britain*, & *Ireland* entirely devoted to selections from his vast collection. He also wrote an excellent article for the October 1967 *Gun Report*, Figures 5 & 6 with photos and descriptions of both Naval Volley Guns and his civilian version along with three others, one of "pepperbox" design. It is with gratitude for Bill LaRue's memory that I was able to obtain copies of that issue.

Much of our discussion to this point has centered on Nock's more spectacular volley guns, but three important though separate events were to transpire that would further enhance his career. First, by 1783, an imaginative and energetic Duke of Richmond had become Master General of Ordinance and taken note of Nock's talent. Second, in 1784, Nock was recognized as a Freeman of the Gunmakers Company, and third the Napoleonic Wars engulfed Europe, greatly increasing Britain's requirements for firearms.

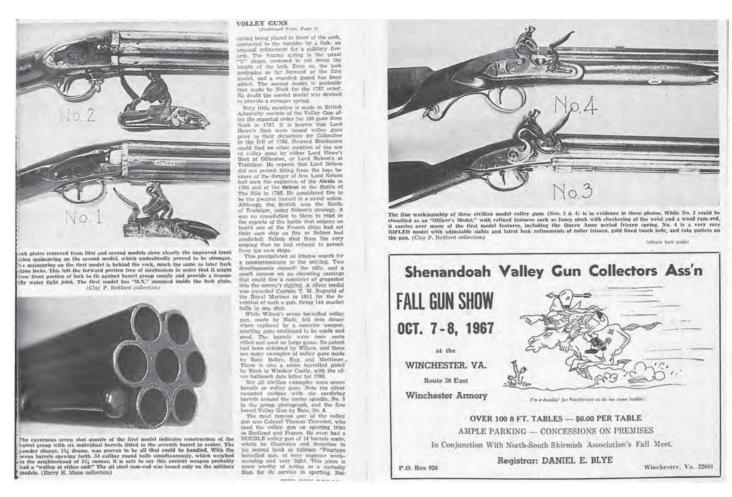
The Duke, was impressed with Nock's innovations. His screwless lock, Figure 2 trumped, those of the competition, Jonathan Hennem and Walter Dick. We note that Sir George Bolton and his patented lock were not in the picture even though his lock had the desirable feature of having an adjustable cock angle for better to alignment flint and frizzen. Sir George was tutor to children of the rich and famous, not an entrepreneur or a locksmith and apparently did not use or abuse his connections or title to promote his invention.

By the summer of 1786 Nock billed and was paid by the Government for:

"... making and compleating 39 Pattern Muskets of sorts, and including £100 for his time, Trouble & Ingenuity for bringing the new invented Lock to so much Perfection ..." and in January of 1787 another bill for experimental work was submitted and allowed.

Now comes an interesting twist from my point of view. In October of '87, Nock billed Ordinance for "Two new Constructed Pattern Muskets made and finished complete at 4, 4s each." In this matter Blackmore's findings were the following:

"It is just possible that these (2) muskets are those illustrated on P1. XX, B & C as they are the only two examples



Figures 5 & 6. Continued.

of a lock of this type which I have been able to trace. Although these locks do not bear Nock's name on the outsides, which are blank except for the GR and Crown on the pan shield, the initials HN are stamped inside . . . "8

The upper gun in Figure 7 is almost surely his example 'C', above; a Duke of Richmond "rammer-to the-butt" experimental musket with one interesting change from his illustration. Upon acquiring it, there was no apparent difference. Disassembly, however, revealed that the forearm was no doubt an afterthought . . . a much afterthought. Not only did it detach readily and its brass nose cap fit back perfectly onto the stock of different and more used wood, but that part of the barrel covered by the forearm extension had obviously been exposed to the elements during a period of use and not overly cleaned by a later owner as was the rest of the gun after its installation. Someone had attempted to make it more nearly conform to the later contract "rammer-to-thebutt" muskets, ignoring its uniqueness as a trials piece. Its companion also in Figure 7 is a standard contract rammer-tothe-muzzle Duke of Richmond musket, its lock bearing the name H-NOCK plus conventional military markings lacking

In June of 1790, it was reported that . . . "HRH the Duke of York and the Duke of Richmond with several

General Officers were in Hyde Park trying and proving several new patterns of Soldiers Muskets." That was on a par with the episode 70 years later when President Abraham Lincoln tested a Spencer Repeating Rifle on the lawn of the White House.

First deliveries commenced in 1792 but ceased after a few years under wartime pressures due to the length of time it took to manufacture the more complicated and expensive though durable lock, and the fact the musket's caliber was less than standard.

That did not stop the enterprising Nock. Local Militia and Volunteer units were raised and commanded by prominent and wealthy "Colonels," and under the looming threat of a Napoleonic invasion, many of these were called to the colors. With the much enlarged British Army on the Continent, the arms such units could count upon were second or third rate hand-me-downs. Thus, many such Colonels purchased Nock's sturdy, up-to-date rifles, carbines and pistols with their own funds hoping for reimbursement from the Crown. Figures 8 & 9. These had 4 3/4" locks rather than the 5 1/2" found on the Duke of Richmond Muskets.

A like practice was fairly common during our own Civil War with Colonels of Volunteer units acquiring Henry or Colt Root rifles, etc. outside the Ordinance system, with



Figure 7. 1787 Prototype Duke of Richmond's Rammer-the-Butt Musket/Ex. H. L. Blackmore and Patt. 1792 Rammer to-the-Muzzle Musket, both by H. Nock, Collection of P. S. Wainwright.



Figure 8. c/a. 1796 Volunter Rifled Carbine, Patt. 1796 Volunteer Short Rifle, Patt. 1796 Yeomanry Carbine, all by H. Nock. Collection of P. S. Wainwright.



Figure 9. Patt. 1796 Brace of H. Nock Screwless Lock Pistols. Collection of P. S. Wainwright.

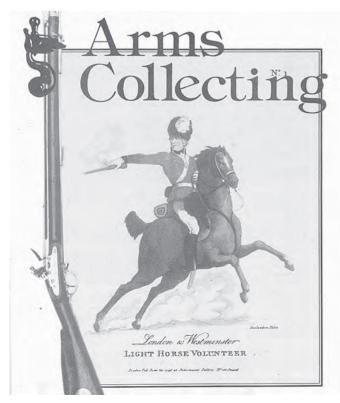


Figure 10. Arms Collecting, Vol. 34, No. 4 Cover re article by Jeff Paine, *The Light Horse Volunteers' Rifled Carbine*.

the Government supplying the multitudinous varieties of ammunition.

Of my two militia rifled cavalry carbines and one short rifle in Figure 8, two have Nock locks and one a "plain" lock. All have front and rear sights. The upper was made for cavalry use and is most handsome with its brass patch box and grip and tiger stripe wood. It is somewhat similar in appearance to the later Baker Rifle, but does not accommodate a saber bayonet as did the Baker or the "Light Horse Volunteer's Rifled Carbine" featured on the cover of *Arms Collecting*, Vol. 34,



Figure 11. Prototype Brass Barreled Pistol with Screwless Lock, by H. Nock. Collection of P. S. Wainwright/once H. Blackmore's.



Figure 12. c/a 1795 Royal Navy, Black Sea Service, Smoothbore Musketoon, by H. Nock Collection of P. S. Wainwright.

No. 4. Figure 10. At first glance down the barrels, of the other two in Figure 8 they appear to have smoothbores, but upon closer inspection rifling commences some 3 3/4" in from the muzzle, a Nock feature to ease and speed loading.

Blackmore notes in his book that "The use of the (4 3/4") Nock lock on the (Patt. 1796) pistol increased the price to 30s" (from 19s 6p)"¹⁰, a reason for its eventual discontinuance. Figure 9.

In this vein, and jumping ahead a bit, there was a bittersweet ending to the career of this great innovator. The sweet part concerned his attainment in 1802 at age 61 of becoming Master of the Gunmakers Company, or "Top Gun" among London's finest. The bitter came with a contract received just prior to his death in 1804 " . . . to alter the Musquets of the Duke of Richmond's Pattern (Figure 7) at 14/- each . . . "11 There were too many different types of shoulder arms in use and, despite the superiority of Nock's locks, his were in the minority due to greater expense and the time it took to produce them. The 5 1/2" lock, Figure 11, and a similar one which appeared on a table at our Flagstaff meeting were likely from among those so removed as they are both in fine serviceable condition.

The Crown purchased smoothbore musketoon Figure 12 has a Royal Cypher embossed flash guard and an "anchor/B" on the left flat of the stock plus a coating of tar thinned with turpentine to resist the effects of salt air and water. Thus it was clearly for Royal Navy use.

With respect to the once Blackmore owned 9" brass barreled "musquet" bored pistol, Figure 11, having a 4 3/4" screwless lock and no provision for a ramrod, he states that he "... can only think it is a prototype pistol or a naval model." I am inclined to believe that both possibilities are correct and that the sentence should read "... prototype pistol *for* a naval model" as brass barrels frequently were made for sea service long after they had last seen army use. For that reason and because of Nock's earlier sales to the Royal Navy and consequent contacts there, it is logical that our entrepreneurial subject would produce such a "prototype" or salesman's sample.

The "coach" blunderbuss with fly bayonet, Figure 13, is, as are many of its contemporaries, brass barreled. Neither a sea service pistol nor a coach blunderbuss or pistol required heavy loads of gunpowder because they were designed for close-in combat. Weapons using larger charges of powder to reach out greater distances required the stronger iron barrels of volley guns or muskets, sea air and salt water not withstanding.

The "plain" pistols with conventional locks, Figure 14, appear little different from those made by the competition, though it was stated to me by an Englishman in the business of repairing antique arms and armor that "The marvelous thing about Henry Nock, is that he absolutely never made an inferior gun, civilian or military!" The one small conventional lock marked NOCK at the bottom Figure 15, might be an



Figure 13. Coaching Blunderbuss with Brass Barrel and Fly Bayonet by N. Nock. Collection of P. S. Wainwright.

exception, or a forgery or made by one of his lesser known relatives in the trade, named Joseph, Richard, or William. An unlikely suspect would have been his nephew, Samuel, who apprenticed under Henry, became a "Master" in his own right in 1836 and was appointed Gunmaker-in-Ordinary to four Monarchs from George III in 1805 through Victoria in 1837¹⁴ (Appendix B—Samuel Nock's Patent No. 4054XX.)

MacDonald Hastings in his book, *English Sporting Guns*, pages 8 and 9, supports the enthusiasm of both Blackmore and the above cited craftsman, stating:

"HENRY NOCK of London, with his patent (No. 1598) of April 25, 1787, achieved a breakthrough. Prior to his patent, the plug was a solid lump of metal. When the flint sparked the powder in the pan, the flame spurting into the touch hole ignited only a corner of the charge . . . In NOCK's gun, . . . the priming powder fired in the middle of the charge. Guns shot harder and quicker . . . it was from NOCK's patent that gun invention leapt forward." 15

The above noted improvement is pictured on page 112 of the previously cited issue of *Arms Collecting*, lower left in

Figure 14. Two Different "Plain Lock" Officers Pistols by H. Nock. Collection of P. S. Wainwright.

Figure 16, and is known as the NOCKFORM BREECH (or KNOXFORM), a feature equally applicable to, and was used as well in the later percussion arms.

While as mentioned earlier, Henry may be presumed to have been saddened in his final days by the contract to replace some of his screwless locks, many of which continued in long years of service with few problems, he remained innovative to the end. An example is the breech loader pictured in an article by Staff Editor Dick Salzer in the September 2003, *Gun Report.* Figure 17. Further, Blackmore points out that in 1803 he billed Ordinance for a "New Pattern Moveable forge for Regimental Armourers" and "8 setts of Heads and Shoes for Land Service Pikes of the new Pattern to serve as Patterns." ¹⁶

For a gunmaker who died at the peak of his career at age 63, Nock was infinitely better off than most of his peers. As an example, Joseph Manton, among the finest of the breed, served three stints in King's Bench Prison for debtors, and the talented Egg family who picked up what was left of Manton's business finally faded out of the picture. Meanwhile, Nock was in a position to leave bequests to many family members, and £100 each, then a princely sum, to a number of those who worked for him, most notably James Wilkinson, his fore-

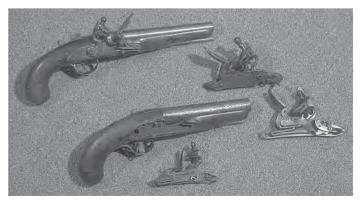


Figure 15. Nock Marked Pistols and Locks. Collection of P. S. Wainwright.

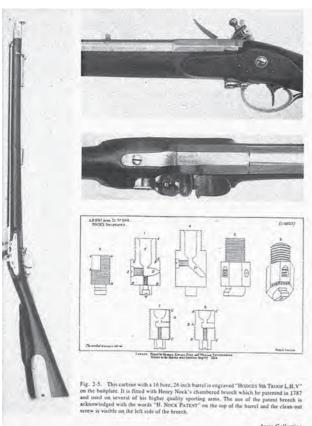




Fig. 6-8. The carbine uses the small commercial version of the serewless lock which is marked N. Nock in script in addition to a sunburst pattern over the front retaining hook. The underside of the barrel is stamped with the commercial London proof marks, the numeral 59, and a Roman numeral "I" which is an assembly mark that is present on all other major components. The .65 caliber barrel is rifled with 7 grooves making one-half a turn in the length of the barrel. The muzzle is fitted with a short bayonet bar for a sword bayonet, no examples of which have been located. The figures also show the heavy swelled ramrod characteristic of the Nock carbines.

dance at drill sessions, Composed as they were of gentle-men and property owners, the Volunteer Associations elected their own officers and provided their own horses, while the government was responsible only for the provi-sion of arms and accountements in addition to a modest clothing allowance.

clothing allowance.

Depending on the means available, the opportunity existed for the volunteer associations to arm and clothe themselves as they saw fit and from the descriptions of the uniforms in Ackermann, it is clear that many of the regiments took great pride in the resplendence of their attire and the quality of their equipment. Ackermann records the uniform as follows:

- uniform as follows:

 Scarlet Hussur Jacker, black Cape and Cuff with silver Loopings, and silver chain Epaidets: white leather Breecker and Glover; military Boots.

 Hebbert: the ruthan of mole-skin. forming a black ground to the words Lourt Horses Volls-YIERS, in front; and on the right side a Crown above the Gatter, with C.M. in the center. Motto, FORWARD, all in silver; the whole topped by black bear-skin, and a white Feather on the left side.

 The Badge is an oval silver Plate, with a Lion rampant, bearing up a shield having G.R. in the entire. Motto, "FORWARD."

 *Pouch, of plain black leather.

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- Sabretasch, worn on the right side, mounted with black Bear-skin; and L.H.V. under a Crown of silver.
- skin; and L.H.V. under a Crown of silver.

 The Officers are distinguished by a Sash, a red top to the Feather of the Helmet, and Leopard-skin farmiture for the mounted.

 The L.H.V. originally consisted of six mounted troops, but in 1798 three additional unmounted troops were

added. Ackermann's description of the L.H.V. states:

"They consist at present of nine Troops of 65 Gentlemen each, exclusive of Officers; but the seventh, eighth, and ninth Troops are dissonanted, and act as Riflenen, carrying a Rifle-barrelled Gun of a new construction, which will do execution at a pera distance; and their Broad Swords are so contrived as to serve occasionally as Bayonets, Cars, or Espedition Carriages, are always ready to convey them at the same pace as the Cavalry may march."

asmip see as the Gwaly in may ready in convey linem at the same pace as the Gwaly in may march."

The first military use of the Nock serewises lock was with the Dake of Richmond '8 Pattern Muskets, Introduced in 1792, this pattern of musket incorporated several improvements over the standard Short Land Pattern musket including the use of the break-off patent breech of Nock's design, a browned barrel, a heavy steel rammer and the use of specially shaped large diameter pins to facilitate barrel removal. The musket was followed with a new pattern of Dragoon carbine with a 28 inch barrel employing the screwless lock. The carbines were first supplied to the 16th (Queen's) Light Dragoons, in 1793 on contract from Henry Nock. 'These carbines which became known as Harcourt's carbine after General William Harcourt the commander of the Queen's Light Dragoons, appear to be the forerunner for several similar patterns of carbines produced by Nock or government consideration and for use by volunteers. Differences included minor changes in barrel length and calibers, ⁶ Ultimately Nock was asked by the Ordnane to produce a new pattern for cavalry arms. The resulting cations, "Ultimately Nock was asked by the Ordinance to produce a new pattern for cavalry arms. The resulting Heavy Dragoon Carbine Pattern of 1796, with a browned 26 inch barrel in musket bore (0.76 in.) followed the general styling of the carbines he had introduced with Harcourt's carbine although the more expensive use of the patent

Figure 16. Arms Collecting, Vol. 34 No. 4 Jeff Paine Article, The Light Horse Volunteers' Rifled Carbine, p. 112 illust. NOCKFORM Breech.

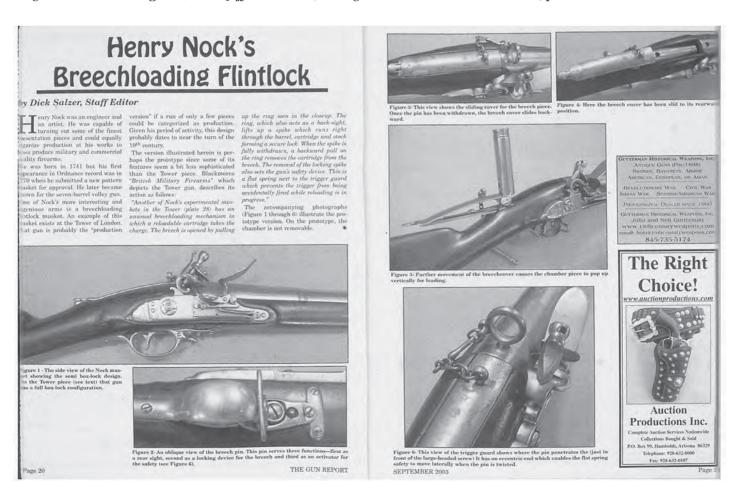


Figure 17. Gun Report, September 2003, Dick Salzer Article re Henry Nock Breech Loading Rifle.

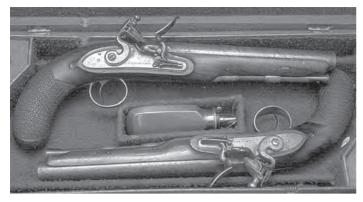


Figure 18. Cased Pair of Officers Pistols by Jas. Wilkinson. Collection of P. S. Wainwright.

man.¹⁷ "In a codicil to the will he made the kindly direction that his business was to be continued for 6 months for the benefit of his workpeople." Both provisions stand as enlightened examples for employers even unto this day.

Foreman Wilkinson, married to Henry's daughter, received an appointment in 1805 as Gunmaker-in-Ordinary to King George and became a contractor to the East India Co. He successfully carried on the business making pistols Figure 18. Note the two notches subsequently cut into the raised rim and opposing edge of the lid of the case which



Figure 19. Cochran-type turret or wheel rifle by James Wilkinson & Son, London. Serial No. 4 Patent 5124. Made for the Marquis of Breadalbane, 1839.



Figure 20. Cased Wilkinson wheel pistol. Serial No. 5 Patent 5125. Made in 1839 for Lord Francis Egerton and described in his book *Mediterranean Sketches*.



Figure 21. Swords and Bayonet Products of Wilkinson Sword. Collection of P. S. Wainwright.

accommodate the cocks when fully cocked. The owner must have trusted the reliability of James Wilkinson's sears!

In about 1818, James' son, Henry, joined the business which became James Wilkinson & Son. Two of their fine products of about 1839 are shown in Figure 19. Henry W. had the innovative talents of forebear Henry N. Some of his inventions were "... 'elliptical' breeches; 'elastic' concave wadding; improved spring gun; vegetable gun-oil (awarded Gold Medal, Royal Society of Arts); (and a) sword-blade testing machine". Peter Hawker, a sportsman and writer on such matters, in 1844 described him in part as "... unquestionably the cleverest and most scientific master in the trade." 19

Henry, the younger son, died in 1861, but his successors continued to make firearms until the early 20th century. By 1904, when restrictions began to be imposed on private ownership of handguns, they were phased out by the company in favor of blades for swords, bayonets, kitchen knives, and razors, Figs. 20 and 21, which continue to be made by the company now known as Wilkinson Sword.

In summary, Henry Nock did just fine by himself, his family, descendants and employees and even the British Empire in spite of the:



Figure 22. Jas. Wilkinson pistols c/a 1810 with Wilkinson Sword razor blades and shaving soap c/a 1985.

"Arms historians (who) have dealt shamefully with that great London gunmaker, Henry Nock." ²⁰

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 - 10. Blackmore, H. L. British Military Firearms 1650-1850, p. 108.
- 11. The Journal of the Arms and Armour Society Vol. II, No. 3, Blackmore, H. L., p. 100.
 - 12. Ibid. p. 100 and Plate XXVI A.
- 13. Discussion regarding H. Nock between writer and armourer at the shop of Robin Wigington, Stratford, Eng. c/a 1966.
 - 14. Blackmore, H. L., Gunmakers of London 1350-1850, p. 149.
 - 15. Hastings, MacDonald, English Sporting Guns, p.p. 8/9.
- 16. The Journal of the Arms & Armour Society Vol. II, No. 3, Blackmore, H. L., The Experimental Firearms of Henry Nock p. 100.
 - 17. Ibid., p. 100.
 - 18. Blackmore, H. L., Gunmakers of London 1350-1850. p. 202.
 - 19. Ibid., p. 202.
- 20. The Journal of The Arms & Armour Society, Vol. II, No. 3, 1956-1958. Blackmore, H. L., The Experimental Firearms of Henry Nock p. 69.



A.D. $1775 \dots N^{\circ} 1095$.

Concealed Lock for Fire-arms.

NOCK, JOVER, AND GREEN'S SPECIFICATION.

NOCK, of the Parish of Saint Andrew, Holborn, in the County of Middlesex, Gun Lock Smith, William Jover, of Long Acre, in the Parish of Saint Martin-in-the-Fields, in the County of Middlesex aforesaid, 5 Gunmaker, and John Green, of the City of London, Gentleman, send greeting.

WHEREAS His present Majesty King George the Third, by His Letters Patent under the Great Seal of Great Britain, bearing date at Westminster, the Eighth day of April, in the fifteenth year of His reign, 10 hath, for Himself, His heirs and successors, given and granted unto the said Henry Nock, William Jover, and John Green, their executors, addiors, and assigns, His especial license, full power, sole privilege, and authority to make, use, exercise, and vend, within that part of Great Britain called England, Dominion of Wales, and Town of Berwick upon 15 Tweed, and also in all His Majesty's Colonies and Plantations abroad, their "New Invented Firelock, more Portable and Safe than any ever

Nock, Jover, & Green's Improvements in the Locks of Fire-arms.

BEFORE MADE, THE LOCK OF WHICH IS SO CONCEALED THAT THERE IS NOT THE LEAST APPEARANCE OF IT ON THE OUTSIDE, NOR ANY SPARK OF FIRE OR SMOKE ARISES FROM THE SAME WHICH WILL IN ANY RESPECT AFFECT OR OBSTRUCT THE SIGHT OF THE OBJECT WHEN IN EXECUTION, THE SMOAK BEING CONVEYED THROUGH A TUBE MADE FOR THAT PURPOSE: THAT THE GUN OR OTHER FIRE- 5 ARMS ON THIS CONSTRUCTION WILL DO THE SAME SERVICE IN EXTREME RAINY. HAZY, SNOWY, OR WINDY WEATHER, AS ANY OTHER GUN OR OTHER FIRE-ARMS NOW USED WILL IN FINE CALM WEATHER; THAT THE PRIME IS SO SECURED THAT THE PIECE MAY BE LAID (WITHOUT ANY COVER) IN THE OPEN RAIN FOR A WHOLE DAY OR MORE, WITHOUT BEING, BY REASON OF SUCH RAIN. 10 IN THE LEAST OBSTRUCTED OR IMPEDED IN THE FIRING OFF OR DISCHARGING THE SAME; THAT THE SAID INVENTION IS SO SIMPLY CONTRIVED, THAT THE Person who uses the said Gun (or any other Fire-arms on this Con-STRUCTION) MAY IN ANY OPEN FIELD TAKE THE BARRELL FROM THE LOCK WITH GREAT EASE, WHICH RENDERS THE BARRELL EXCEEDINGLY EASY TO BE 15 CLEANED, AND THERE IS NO OBSTRUCTION OF A BREECH PIN, AS IN OTHER GUNS OR FIRE-ARMS; AND LIKEWISE THEIR NEW INVENTED LEAVER THAT SETS THE LOCK IN MOTION, WHICH INSTANTLY CAN BE TAKEN AWAY, AND THEREBY DISENGAGES THE ACTION OF THE GUN (OR ANY FIRE-ARMS ON THE SAME CONSTRUCTION), AND IS QUITE SAFE FROM GOING OFF WITHOUT THE 20 APPLICATION OF THE LEAVER, WHICH MAY BE APPLIED IN A MOMENT, AND WHICH SAID FIRELOCK MAY BE USED EITHER TO A GUN, PISTOL, CANNON, OR ANY OTHER INSTRUMENT OF FIRE-ARMS WHATEVER, WHICH HATH EITHER ONE, Two, THREE, OR MORE BARRELS;" together with the whole profit. benefit, commodity, and advantage from time to time coming, grow- 25 ing, accruing, and arising by reason of the said Invention, for and during the term of fourteen years, according to the form of the statute in that case made and provided; in which said Letters Patent, amongst other things, it is provided, that if the said Henry Nock, William Jover, and John Green shall not particularly describe and ascertain the nature 30 of their said Invention, and in what manner the same is to be performed. by an instrument in writing under their hands and seals, and cause the same to be inrolled in the High Court of Chancery within four calendar months next and immediately after the date of the same Letters Patent, that then the said Letters Patent, and all liberties and advantages what- 35

Nock, Jover, & Green's Improvements in the Locks of Fire-arms.

soever thereby granted, should utterly cease, determine, and become void, anything therein-before contained to the contrary thereof in anywise notwithstanding.

NOW KNOW YE, that they, the said Henry Nock, William Jover, 5 and John Green, in pursuance of the intention of the said Letters Patent, and in compliance with the provisoe therein contained, do hereby declare that the nature of their said Invention of a new firelock and leaver, as above set forth, and in what manner the same is to be performed, is as follows (that is to say):

A gun with a barrell, stock, and lock, as follow:—The barrel of any length and size at pleasure; the stock the same; and the whole made of any metal, as other guns are made. The lock consists of a main plate, a steel pan cover or hammer, a cock concealed, a main spring, two small swivels, a main center pin, a leaver, a leaver spring, a hammer spring, 15 a pan cover center pin, a trigger, a trigger spring, a guard, a lock cover, a bolt, a lock cover spring, a tube, a lever to cock the gun. The main plate of the lock answers the purpose of the pan touch hole and breech pin. The pan is covered by the hammer or steel cover, and moves in a joint with the assistance of two small springs acting upon the semi-20 circular ends of the joint pin, or may be with one spring, a cock which acts in the centre of the main plate (in a joint through which is a center pin) which receives its force by a double main spring fixed on the main plate, or may be with a single one. The cock is connected with the main spring by two small swivels. The hammer is carried over the 25 flint as the gun is fired by a small leaver thrown up with a spring which is disengaged at half-cocking the gun. The trigger acts in the center of the main plate, and answers the purpose of both sear and trigger, and may be applied to either side upon the center pin. The action of the trigger is caused by a small spring covered with a guard. 30 cover has a joint, shuts fast by a double bolt or locking spring, and opens by the pressure of the finger or thumb on the bolt leaver assisted by a small spring, a leaver which fixes on the end of the main center pin to cock the gun. The fire and smoke occasioned by the prime in the pan being fired are conveyed through a tube, which represents a part 35 of the gun stock, and is about sixteen inches long, or may be continued

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to the muzzle of the gun. This covered lock may be applied to either side of the breech of the barrel.

In witness whereof they, the said Henry Nock, William Jover, and John Green have hereunto set their hands and seals, the Fifth day of August, in the fifteenth year of the reign of our 5 Sovereign Lord George the Third, by the grace of God of Great Britain, France, and Ireland King, Defender of the Faith, and so forth, and in the year of our Lord One thousand seven hundred and seventy-five.

HENRY NOCK. (L.s.) 10 W[™] JOVER. (L.s.) JOHN GREEN. (L.s.)

Signed, sealed, and delivered by the abovementioned Henry Nock, William Jover, and John Green, in presence of

15

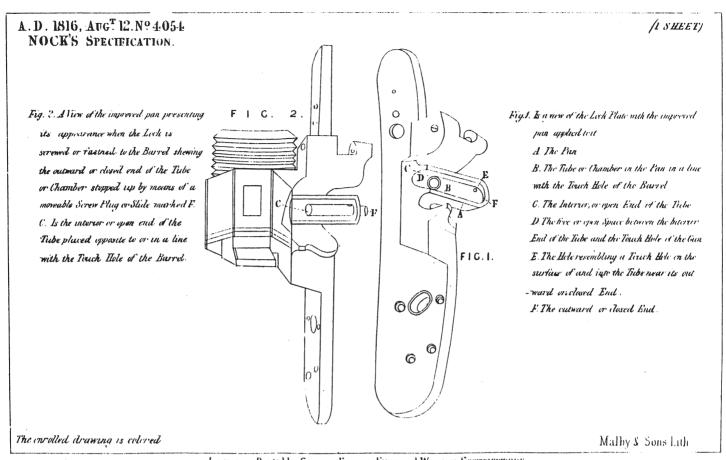
W^M Young Knight.
Jos. Love.

AND BE IT REMEMBERED, that on the same Fifth day of August, in the year abovesaid, the aforesaid Henry Nock, William Jover, and John Green came before our said Lord the King, in His Chancery, and 20 severally acknowledged their Specification of their Invention aforesaid, and all and every thing therein contained and specified, in form above written. And also the Specification aforesaid was stamped according to the tenor of the Statute made in the sixth year of the reign of the late King and Queen William and Mary of England, and so forth.

Inrolled the aforesaid Fifth day of August, in the year abovesaid.

LONDON:

Printed by George Edward Eyre and William Spottiswoode, Printers to the Queen's most Excellent Majesty. 1854.



LONDON Printed by GEORGE EDWARD EYRE and WILLIAM SPOTTISWOODE Printers to the Queens most Excellent Majesty. 1854



A.D. $1816 \dots N^{\circ} 4054$.

Pan for Locks of Fire-arms.

NOCK'S SPECIFICATION.

TO ALL TO WHOM THESE PRESENTS SHALL COME, I. SAMUEL NOCK, of Number One hundred and eighty, Fleet Street, in the City of London, Gun Maker, send greeting.

WHEREAS His Royal Highness the Prince Regent, in the name 5 and on behalf of His Majesty, did, by Letters Patent under the Great Seal of Great Britain, bearing date at Westminster, the Twelfth day of August, in the fifty-sixth year of the reign of His Majesty King George the Third, give and grant unto me, the said Samuel Nock, his especial licence, that I, the said Samuel Nock, during the term of years 10 therein mentioned, should and lawfully might exclusively use, exercise, and vend, within England, Wales, and the Town of Berwick-upon-Tweed, my Invention or "Improvement in the Pan of the Locks of Guns and Fire-arms;" in which said Letters Patent there is contained a proviso, obliging me, the said Samuel Nock, by an instrument in 15 writing under my land and seal, to cause a particular description of the nature of my said Invention, and in what manner the same is to be performed, to be inrolled in His Majesty's High Court of Chancery within two calendar months after the date of the said recited Letters Patent.

Nock's Improvement in the Pan of the Locks of Fire-arms.

NOW KNOW YE, that in compliance with the said proviso I, the said Samuel Nock, do hereby declare that my said Invention is described in the Drawing hereunto annexed, and the description hereunder written. In witness whereof, I, the said Samuel Nock, have hereunto set my hand and seal, the Eleventh day of October, in the fifty-sixth 5 year of the reign of His Majesty King George the Third, and in the year of our Lord One thousand eight hundred and sixteen.

The following is a Specification of my Patent for an Improvement in the Pan of Locks of Guns and Fire-arms:—The improvement consists in a hollow tube or chamber in the pan of the lock opposite to the 10 touch-hole of the barrel, and lying in such a direction as that a straight line passing through the centre of such tube or chamber from one end to the other would enter the touch-hole of the barrel. This tube or chamber in its length occupies about three fourth parts of the length of the pan, leaving the remaining part of the pan between it and the 15 touch-hole of the gun a free space, or it may occupy in its length the whole or any part of the length of the pan. That end of the tube or chamber nearest the touch-hole of the barrel is open, the other or exterior end is closed or stopped up, either by being left or made solid, or by a screw plug or slide applied to such exterior end, and which 20 screw plug or slide, if capable of being removed or taken out, will facilitate the cleaning out of the tube or chamber when foul. or chamber can be made of such proportionate size to the pan as to be wholly or partly covered with the gunpowder, and to leave either the whole or part of the surface of the pan to be covered with gunpowder. 25 A small hole or vent resembling a touch-hole is made in the tube or chamber near to its exterior end, whereby a more ready communication between the gunpowder on the surface of the tube or chamber and the gunpowder within it is obtained, though such hole or vent is not absolutely necessary. This tube or chamber may be shortly described 30 as resembling a small cannon fixed in the hollow of the pan, opposite to and firing straight into the touch-hole of the barrel. This improvement may be applied to all sorts of guns and fire-arms, but it is more peculiarly adapted to such as prime themselves from the loading or charge put into the barrel. For the more minute particulars the 35 Nock's Improvement in the Pan of the Locks of Fire-arms.

details in the annexed Drawing may be referred to. Figure 1, is a view of the lock plate with the improved pan applied to it. A, is the pan; B, the tube or chamber in the pan, in a line with the touchhole of the barrel; C, the interior or open end of the tube; D, the 5 free or open space between the interior end of the tube and the touchhole of the gun; E, the hole resembling a touch-hole on the surface of and into the tube near its outward or closed end; F, the outward or closed end. Figure 2, is a view of the improved pan, presenting its appearance when the lock is screwed or fastened to the barrel, shewing 10 the outward or closed end of the tube or chamber stopped up by means of a moveable screw plug or slide marked F. C, is the interior or open end of the tube or chamber placed opposite to or in a line with the touch-hole of the barrel.

SAM^L NOCK. (L.s.)

15 Signed, sealed, and delivered by the withinnamed Samuel Nock, in the presence of JAS B. BOSTOCK, Tokenhouse Yard.

AND BE IT REMEMBERED, that on the Eleventh day of October, 20 in the fifty-sixth year of the reign of His Majesty King George the Third, the said Samuel Nock came before our said Lord the King, in His Chancery, and acknowledged the instrument aforesaid, and all and every thing therein contained and specified, in form above written. And also the instrument aforesaid was stamped according to the tenor of the Statute made in the fifty-fifth year of His said Majesty's reign.

Inrolled the Eleventh day of October, One thousand eight hundred and sixteen.

LONDON:

Printed by George Edward Eyre and William Spottiswoode, Printers to the Queen's most Excellent Majesty. 1854.