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## HORSL-SHOEING,

AS IT IN TOONE,<br>ANDASITOUGHTTOBE.

- hatrbir amonessem To ry:




## BY M. A. CLMEG; V. S.

Wemarr of the Royal College of Veterinary Sumsons of Eidininumh \& Lominn,"

Molisied By Oruer of the Board.

FRACDERICTON, N. B.:

## -HORSE-SHOEING,

 As it is, and as it ought to be,BY M. A. CUMING, v. S.

To the President and.member's of the St. Jolan Agricultural Society, Gentlemen,-In addressing you on the particular point in the treatment of your horses placed at the head of this lotter, I may be allowed to guard myself against the imputation of oltrusiveness by roferring to the following extract from the orighalapplication of the Society by which I was induced to.come to this city and Provincs. In writing to Professor Dick, of Ediuburgh, to recommend a competent Veterinary Surgeon for St. John, the Corresponding Secretary of your Society said:-"It is greatly dessred by the members of the Society that the Surgeon should have in comection with his estabbishunent or under his charge, a Forge where horses could be shod in a proper manner. At present we are very badly off in this respect, there being but few smiths with whon a good horse can be -safely trusted."

This was written in the summer of 'bl, and my own observation after coming here in '5a fully bore out the truth of the statement. It was not necessary to take off shoes or examine feet, or enter into .any other mixute kind of inspection to find out the evil. The long Donkey like hoofs every where seen, and the number of horses lame from corns, contractiona, tingboncs, spavins, sprained tendons and interfering were sufficient evidence that the Society had not in--structed its Secretary to write as he did without abundant cause.

Such being the case there is need for little further proof that the horses here are not generally shod as they should be; nor is it réquired that I should urge the benefit of a better system. The adage "no foot no horse" is cqually applicable here as where it wow first used. In this country where horses are hard driven, aud too dight generally for their work, it is of the greatest importaice thest as few defects should exist in the plan of shocing them, and as mant advantages be combined us the state of the shocing art wili indmit ol, and it is to further this desirable ond that the following renarks are meant. In writing my ideas therefore on hnese-shooing, thave

110 whish that they should be looked upon as a complete or formad freatise on the subject. So many of these already lavir:g heen pub. lished by men eminent in the art as to supply to the sciontifie or raquiring reader all the information that books can give. My object is of a less pretending but more practical character, namely, to point out the errors most conmonly fullen into as the thing is done among ourselves, the effects of these errors, and their remedy.
'I'ho first thing that takess the notice of niny one accustomed to zec horses well shod, on looking at the teet of almost all he ineets hero, is the preposterous length of the toca, so strango indeed did this fenture secm to me at first, that I doubted if the internal parts of the fout eould be the same as those I had been used to see elsewhere, or if natare had not in a freak made them different here frotn what they are in other places. Subsequent inspection however Leas shown me that this is not the case, that nature forms the feet of horses here the same as every where else, and that the absurd ant often ludicrous forms we see thera fashioned into is only the work of the shocing smith. When the foot is unshod and the horso at: liberty, the growth of the hoof is barely aufficient to provide for the constant wear and tear of the sole and toe; and consequently no part is either wanting op superabundant. But when the horse is put to work on hard roads, and to stand in dry stables, the foot becomes inadeguate to the weur, and to save it we put an iron shoe on. This shoe prevents the wear without checking the growth of the hoof, and to compensate fur this, every time the shoe is off the font should be brought as near as possible to the form and size that hature gave it. In the unshod colt the greatest diameter of the hoof is across the sole. This is especiblly the cuse in the fore foot, and it contributes materially to the usefulness of the animal that it should continue so through life.

The function of the fiore leg is mainly that of supporting the weight of the body, head and neck, and of transferring that weighit forward from point to point at the time the arrimal is in metion. fir pertorming this latter action its mechanical bearing is much the same as that of a spoke in a enrriage wheel. It is in fact a lever, in which, to give increased speed, the power acts at a disadvantage. the fulcrum or hixed point being at the long end of the lever, whilthe power and weight are near each other at the short. This lone portion or arm of the lover is tho leg from the elbow to the ground, the toe being the fixed point over which the body is raised, and tence ony addition made to the length of the toe, has the same fict upon the horse as the placing the block before the whecl of a
carriage has on it. It acte against the muscular power of tire animal as used in the raising and carrying forward ot his weight, nad if ridden, of the weight of his rider, and though only requiringe a sinall a!clitionat effort at ench step tells materinlly in a days journey. Every one the least a judge of horses can tell of the aul. vantage of haying them short below tho linee, und is rendy to des. pise as misshapen ony one that has the reverse defect. But thewe seem fow (hereabout at least) who have got so far as the consecutive idea. namely, that to cultivate an udditional inch of unnccossary toe, is just the same ns to put that much to the lengeth of the bone below the knee, in fact for the horse, worse, as the addition is made at the point of greater disadvantage.

In the hand leg, though the functions of the part be different, the effects of a long toe are equally all evil, if any odds worse. 'Ihe tnain use of the hind leg is the propulsion of the body forward, and when bnuligg of the lond also. In eflecting this the leg from thw hock to the ground is a lever also of the second class. The power is the muscles whose tendons are unserted iuto the point of the bock. The resistunce is coucentrated in the tibia or hone of the Ieg where it forms the hock joint, and the fixed point of the lever is the point of the toe upon the ground. From this it is plain on the simplest neechanical evidence, that anything added to the length of the toe, in so much leverage placed against the animats power of hauling, abat consequently that he must either do less work, or else exert himself more in the dring of it.

Mechanical disadvantage to the horse in the performaner his work however, is but one of the evils following the long toes dil thim country. Another equally great often arises when he is standing at rest.

Eivery one luows what is meant by a horse being "sprung in the knees." For the information of those who are curious to know how this condition is produced, I will explain one of its causes. The bones of the foot amp pastern of the horse do not stand perpendicularly above each other, but slope bachwards, a considerable portion of the animals weight resting on the tendons that pass downt the back of the leg, and hence the greater the slope the inore the strain the tendons have to bear. li we put a horse to stind with his heat mp hill, more exertion is needed to sustain hionsulf than if standiag on a level. The reason is that the bones of the tont ant pistern àre therely placed more obliquely, and more of his wr ight is thrown upon the tendons and muscles, and thes at waried horse. if left to himselt ulways feels with his head down hill; but we adis
(1) the siope of the foot and pastern the same by adding to the length of the hoof und shoe as by placing the horses hend up hill, und with grenter permanency of eflects as we leave him no power to relieve himsell: Otien the two conditiens are conjoined, the toes are imperionsly long and the horse is confiued uine-tenthe of lis time in a sloping stall. Here the muscular exertion of sustaining his weight soon becones irksome, he s!ifts from one foot to unother hut finds it only a temporary relief. The muscles connected with the tendons that pass down the back part of the leg to the foot soon begin to relax till the weight falls on the ligamentous straps behind and below the knee. Then the bones of the pasterm and foot become still more sloping, and to sustain his body perperdicularly above his feet, and still more to relax the muscles, the knee bulges out in front to a line with the projecting toe. This at first occurs only now and then, when the horse is wearied and forgetfal, his postures becoming natural and proper when rotsed up. By-and-by however it becomes a habit, and the causes being permanent nad constant in their actinn the effects soon become the same, und we have for life the horse " sprung in the knees."

Many a valuable horse, tottering on the brink of this condition has been saved und brought hack to usefulness by having his feet put in a proper shape, and a run at grass, or a loose box to stand in allowed him, white others on whom the torture of long toes and sloping stalls was persevered with have become permanently useless.

Another evil, resulting from the length at which the toes are comenouly left, is interfering. The horse, finding the long projection in front of his loot as so much leverage acting to his disadvantage, gradually gets into a habit of shifting it, by raising himself from one or the other of the quarters. This is still more the case when, in addition to the long toe !eft on the hoof, a small round knob of steel is set into the point of the shoe, as if in contempt of all that nature teaches. With these absurd contrivances placed between his weight nud the ground that supports it, it is next to impossible firr a horse to raise himself evenly upward and forward, and hence the number that one way or another interfere. If in raising his weight from the gronnd, the pressure be upon the inside quarter of the lout, then the thick part of the pastern is thrown inward, in the way of being struck by the upper edge of the hoof of the other side. If the cant be the other way, and the outside quarter raise the weight, the inside edge of the shoe is thrown round and upapard, and runs the riak of cutting with it the opposite leg. .. Fiven
the narrow base of less than hati an inch on which the smith ling ropped him, the tendeney is for him to topple over, which he does. till the side or quarter of the shee either outside or inside takes the :round ind gives him firther support. 'I'his however is not done: withont at eant or jerk to nll the joints of the foot. 'Irue, it is the work of an instant and the horse recovers himself, and goes on bre fore we can ulmost see it is done. But then the sume vecurs a hundred, it may be a thousand times a day, when the ronds are rocky or Iry and stony, chnting, twisting and jerking the collin pastern nud fetloek joints at every step, nad yet, we daily meet with those who aravely wonder how the ringhones, swellod fetlocks, sprains, and apavins, we nll produced.' The wonder ruther is, considering the improper and umaturally shaped feet and shoes, that there are any' sound.

Another of the error's in shoeing which I' found current when I eame here was the want of a tip or projection turned up, on the poin of the shoe to for nn abument against the toe of the hoof. It secmed to ine that in respect of this the smiths had turned the shoe wrong side up, giving a tip downwards where nature never designed it to be, and denying one upwards where it was essentially wanted. As from the long toes so from this also the fore feet are the greatest sufferers. I have already mentioned the function of the fore limbs to be mainly the support of the weight, and its transferenco forward from point to point during the motion of the animal. In doing this it considerable degree of concussion is inflicted upon the foot every time it strikes the ground. The direction of this concuission is neither right duwnward nor right forward, but between the tiwo, partaking of the horizontal motion of the body of the animal along the road, and of the perpendienlar direction of the deseent of his weight.

Every one knows the udditional power of rosisting or sustaining concussion and weight any fibrous substance has if struck or pressed in the direction of the fibres besides if acted on in any other. 'The hoof of the horse is composed of an infinite sumber of dense fibres, strongly agglutinated together; and to cnable the foot with the greatest advantage to meet and support the concussion there is when it strikes the ground, these fibres are every one of them so placed in the unshod. foot as to receive the shock directly on their ends. In addition to this, the front part of the hoof where the force of the concus: ${ }^{2} \mathrm{n}$ is ${ }^{\prime}$ greatest is twice or thrice as thick and strong as the side and neels,* its slope indicating exactly the direction of the descent of the horses: areight.

Now all this thickening end strengthening and sloping at the toe of the fore foot is not without an obvious design, which is to enable it to reccive without injury the shock upon it when the horse is thrown forcibly forward, as in leaping, galloping, or even hard trotting, es. pecially if down hill, and by turning up a tip on the shoe as an abutment for the toe to press against when it strikes the ground we make both shoe and foot to ast together in harmony, we save the shoe from being knocked off, and at the same time promote the natural action of the foot. In shoeing without this simple expedient, we frustrato the design which nature evidently had in making the toe so strong, and throw the concussion this strength was designed to meet upon the nail holds of the weaker parts of the foot, sides and heels. These havo not only to support the weight of the shoe but also to bear the force of the foot striking the ground; und the shoe being found from these two causcs more inclined to come off than is wished, resource is had to an extra amount of nailing, not only at the toes, where from. the thickness and want of spring in the hoof it is harmless but round the quarters and even to the heels where by its pinching and fettering effects it is productive of the worst of consequences; corns, contrac. tion and founder being its daily fruits.

No disease is more certuinly a consequence of shoeing than corns, and the number of horses lame from this hereisfal most beyond belief. I have met with them in feet where they had saused lameness for years and been shod over all the time without discovery. In such a case we may blame the shoer for oversight bat not for wilful mis. doing; but what shall we say when a corn is discovered, and to some relieved by the knife, and then the shoe refixod on the very plan by which the evil was originally produced, yet such things happen not once or twice, but daily.

Two causes mainly contribute to the production of corns; nailing of the shoe too far back by its preventing the spring of the foot is one. The other is unequal pressure of the shoe upon the sole and heels; when botls are combined coras are next to inevitable.

A reason or at least a pretext for heel nailing I have already noticed. The extent to which it is carried and the uniformity of its occurrence show that those who produce it never entertain a doubt of its propriety, nor a suspicion that the hoof of the horse is an elastic and organized structure contracting and expanding alternately at every step and consequently in proportion to the extent to which it is fixed and fettered.

The unequal pressure between the hoof and shoe which leads ta, corns and other hurtful consequences may arise either from the shoe
being improperly made or the foot insufficiently pared out. It is rarc that we meet with a shoe here on which an attempt has been made to form a seat for the sole, more rare still that the attempt is successful. The seat when tried to be made is commonly only a concave from given to the entire surface of the shoe next the hoof instead of extending only as far outward as the sole, and leaving a level rest for the edge of the crust, such shoes should be called scooped rathe. than seated and are worse to make a horse go with, than even theose flat made.

But the cause of corns is often to be found in the way the foot ig prepared. I have already adverted to the buttris as being instrumental in the production of long toes. It is equally so in that of corns. Of this no better proof is needed than the disappearance of the one simultaneous with disuse of the other; this has happened generally in Brtain within the last thirty or forty years, and particularly in the practice of Regimental shoeing.

Professor Coleman of the Veterinary College of London, writing in 1809 says: "There are very few horses that are not attacked with corns. This is so common a disease that nine hundred horses out of a thousand have it." Mr. Percival, Veterinary Surgeon to the First Life Guards, in his work on lameness in horses published last year says: "That faulty shoeing is the chief and predominant cause of corns cannot anywhere receive more satisfactory demonstration than in the Army. Corns and quittors and contracted feet were in former days as rife in the Cavalry as in other places, whereas at the present day these diseases are all but unknown to Veterinary Surgeoas of Regiments ; and all is owing to an amended practice of shoeing."

My own experience, if it could add anything to the above is this: during seven years practice immediately preceeding my coming here 1 did not meet with more than five or six cases of lameness from corns ; and in a record of more than a thousand cases that I kept during a part of the time, noting them in the order which I treated them, there is only one of corns, and taat a slight one. Since I came here there are few days that I do not see horses lame from this cause, although it can be but a fractional part of the evil that comes under my ofservation.

In blaming the buttris for producing corns and other evils, a few words of explanation is necessary. From the shape of this tool its zendency in cleaning out a foot with it, is to cut away both crust and sole, bars heels and all to one level. In fact it is hardly possible when using it to leave one part more predominant than another, ewFecially when it is the crust and bars that should be left and the sole

## [11]

removed. The hoof of the horse though strong and tough to resist. internal agencies is by no means a stiff or rigid body, but springs and expands at every step, and along with this expansion the sole descends and flattens out from the weight of the horse resting on the coffin bone inside. Now if this descent of the sole be not allowed for in fitting the shoe, either by a seat worked in the shoe itself, or by, cleaning out the sole to a lower level than the crust, then the sole in its descent presses on the shoe, and the sensitive part inside is squeczed between it and the coffin bone. As the heel is part of the foot in which expansion is greatest and the descent of the sole and coffin bone most, and as the angle between the bar and crust is the place from which the sole is with :eatest difficulty removed, so it: is in the heels that the bruising ano wurn producing action of bad sheeing is most to be met with. Yet I have seen on all parts of the sole round near the crust bruises caused by pressure of the sole down. wards on the shoe. The way therefore in which the buttris aids in the production of corns is from its unfitness for effectually removing the more depressed parts of the unnecessary horny sole. In the hands of a person aware of how the foot should be dressed, and whio will take the drawing knife and rasp to give the sole, heels, and tot the proper form, after doing the rougher part of the work with the buttris, it is an efficient and useful tool, and so long as people allow the feet of their horses to grow for six months at a time without re:moving the shoes, they can hardly expect it to bo laid aside. Its abuse however if better understood would be easier guarded againgt andits to this, rather than to its entire diseame that I wish my remariks to tend.

The common way in which I haveseen feet prepared and shod here is this. After removal of the old shoe the buttris is brought over the frog, bars and heels first, and these being soft and easily cut get a liberal slicing, a scoop is then taken out of the sole on each side extending nearly to the toe, and forming a uniform concave from the point of the frog to the out edge of the crust; so that when a scooped shoe is placed on it, instead of the foot and shoe presenting two level surfaces to each other, they rest upon two thin edges, and even with the level shoe it is the thin out edge only of the crust that bears the weight: this scooping out of the sides of the soles is all the implement can conveniently effect. It is not handy for rounding or shortening back the toe and so is seldom bid to do it, that part being, left entire oxcept a little out of the sole surface which rather adds than'otherwise to its projecting point ; neither is it available for cleaning out the sole from the angles between the heels and bars; leaving these parts
prominent to rest upon the shoe. All it can do here is to bring the parts to a uniform level, and this being done with the foot off the ground, the instant it is set down all the parts change their relative positions, and if the sole was left equally full as the crust and bars (parts designed to bear the horses weight,) it is now more so, and a week or two's work and growth brings such a degree of pressure on it as to bruise the sensitive sole underncath, rupturing some of the minute blood-vessels with which it is studded, and showing the evil that is done by the effusion of the blood through the pores of the horny sole as in the condltion called corn.

The foot being prepared in this way, the shoe is fitted (so far as it gets any fittirg) to its elongated and pointed form, and being turned wrong side up so far as the shape of the toc groes, it is nailed as far back towards the heels as nails can safely be driven, and the same process being repeated time after time when the shoes are removed we have the long contracted inule looking feet produced that we sec daily on our streets.

A system of shoeing free from these defects is just as easy to practice, equally cheap, and productive of far more satisfactory results. The following is an outline of its most important points.
'In making the shoes whether fore or hind, the elongated and pointed shape should be studiously avoided, even when from previous bad management the feet are contracted at the heels and flattened in on the sides to an extent admitting of only a partial restoration to the proper shape; still the projecting point upon the toe can be dispensed with, and a broad and solid bearing given in front. The fore shoes if they have a concave seat shouid have a perfectly level bearing of the breadth of the crust round the outside. The hind shoes do not need seating as the hind feet have a greater concavity and less descent of the sole than the fore. Both fore and hind shoes should have a tip or projection turned up in front as a rest for the toe to bear against in the descent of the foot, and an aid to the nails in keeping it on. The web or body of the shoe stiould be of a uniform thick. ness all around, and when heel caulks are worn they should be both one length; when only one caulking is worn the other heel of the shoe should be thickened up to the same level. When toe caulks are required either to give foot hold for heavy draught or for sharpening in winter, they should extend as far laterally as the breadth of the foot will admit, be as little prominent as may be to afford sufficient hold, be of a uniform depth from end to end, so that all parts bear equally on the ground, and have the bearing edge on the same level as a line drawn between the points of the heel caulks.

## [13]

The fullering or grooving of the shoe is a useful device for securing the even punching of the nail holes and protecting the heads $o_{f}$ the nail; from wear. Beyond this I am not aware of any benefit from it, and it certainly has the disadvantage of weakening the shoe and facilitating its being worn down. In France, many parts of Britain, and in all the English Cavalry Regiments, the nail holes are simply punched and counter-sunk without any groove or fuller and have a nail suited to the sizc and form of the hole. The shoe marle thus has a greater solidity and durability, and I have little doubt will ultimately be the form preferred. But whether fullered or not there are one or two things about the punching of the nail holes not to be overlooked. They should all be so punched that the nails may enter the wall of the hoof on its inner edge. No nail hole should ever be seen on the seating of the shoe, nor nail in any part of the edge of ${ }^{f^{\prime}}$ the sole. To do this properly requires some nicety as both the thick. ness and slope of the crust alter as we proceed from the toe to the hecls, and it is one of the things much neglected in the making of shoes here, there being but few in which you will see a well gra. duated range of nail holes. A point worse managed however is the placing of the nail holes properly as regards their distance from the heels. No nail should ever be driven into the foot further back than its broadest part. This is a rule of nature's indication and she will not suffer its violation with impunity. Behind the broadest part of the hoof the spring and expansion is such that it cannot be fettered or confined without harm; yet we seldom see a shoe made here that has not one or two nails into the forbidden ground, and often they are nailed to the very heels.

As an instance : a gentleman drove a horse from Fredericton to St. John last winter who had been shod the day before leaving. He was two days on the way, and before reaching here was lame on all four feet. On taking off the shoes no special cause of lameness was found in any of the feet except the fettering effects of the nails; but these were driven to within half an inch of the heel eaulks, so as to destroy entirely the natural action of the foot.

In another case a gentleman's horse in Portland had been lame from corns noboby knew how long, as the hoof was so over-grown that the corns had never been discovered. In this ease the fore feet admitted of being shortened back more than an inch, and a proportional quantity taken off the sole; and the nail holes of the old shoe instead of extending only balf round as they should have done, oceיגpied more than two-thirdy of the circumference from the toc to the heels.

## [14]

A third instance may be mentioned. About a month ago a gentleman from Sussex brought a colt for me to see, being in the belief himself that he was foundered as he was equally lame in both fore feet. The most careful examination could detect no acute discase as a cause for his lameness, but both fore shoes were nailed on with ten nails each, five on each side, and back almost to the heels as if intended not to need removal during tire animal's natural life.

Since this was begun to be written, the following case occurred in town as if to impress more strongly the necessity of exposing the system referred to. A dray horse was lame on a fore foot ard was taken to a forge and had a new shoe put on. Three or four days afterwards (the lameness in the mean time having increased) I was called to sec him. I found the cause of lameness to be a suppurated corn in one of the heels, the inflamation from which had run so high as to break out at the top of the hoof between the hair and bone. The cause of the corn was equally obvious. The shoe had no too tip to steady it on the foot, but instead had a large one turned up at each heel, so as completely to fix the foot and make its lower part rigid as if in a vice. On enquiry [ learned that a shoc. of the same kind had been on before the recent shoeing, and had no doubt produced the corn and lameness for which he was reshod; while the more complete fixture of the new shoc caused the inflamation and suppuration I was called to treat.

These are not singular instances; similar ones are occurring almost every day, and anything approaching to a well made shoe is the oxception rather than the rule in this country.

In the preparing of the foot for the shoe there is also as I have already noticer, room for much amendment on the way it is practised here. The back parts of the hoof having less growth and more wear on them than the fore, seldom require anything removed except it be a little from the outside heel. The frog should only be touched to remove any cut or ragged portions. The bars, those angular ridges that be between the frog and heels should be left at their full strength, and the sole between them and the wall of the heel thinned down so far at least as to prevent the possibility of its descending on the shoe. The sole at the toe where it has the protection of the shoe should be thinned out till it can be made to yield to the pressure of the thumb. The crust should be shortened back in front, a notch taken out forthe reception of the upturned tip, and its whole lower surface where it rests upon the shoe made plain and level. This is a most im. portant point. The weight of the shoe is supported by the attach. ment of the coffin bone to the inside wall of the hoof. The lamina
by which the connection is formed permitting of a very perceptiblo amount of motion of the parts, it is consistent with this th..t the rest of the hoof upon the shoe should be greatest at the inner edge of the crust rather than the outside so as to give the weight the most direct support. In the scooped out form of shoe and foot, where the bearing of the one upon the other is by the extreme out edges, this is widely departed from, and the effects are seen in the broken, twisted, and contracted elges and heels produced. When the fore shoes are made without a seat as in the case of having the side next the ground concaved, the same holds good with respect to the flattening and ${ }^{i}$ leveling of the crust, but the sole requires to be more cleaned out so as to prevent its discent upon the shoe ; for doing this as well as. shortening back and forming the toe, the drawing knife will be found It far fitter tool than the buttris. In applying the latter to the foot, the heels, frog and bars, are what first present themselves and stand most in the way of its cutting edge; with the knife, the toe and soleare the parts easiest to cut, the back of the foot being out of the way rather: and it is owing to this perhaps more than anything else, that in the hands of those who shoe by rote only, without rule or reason for what they do, the one tool may bo taken as the emblem of a goodplan of shoeing, and the other the reverse. It is quite possible tomake a bad shaped foot with a drawing knife or a good shaped one with a buttris, but it is more convenient with each tool to do the reverse.

Few general directions can be given about the driving of the nails. Different kinds of feet requiring different depths of holes. None of the holes should be so far to the inside of the wall as to press on the sensitive parts, nor so near the out edge as to split or break the hoof; and as a mark of fair and uniform driving the nail points should come out all about one height. The rasp should be used to finish: off with, but should be applied but sparingly to the upper part of the hoof, and whercver it has gone the surface should be coated overwith a composition of greasy and resinous matters to stop its poresand prevent its drying and cracking on the surface, this should be done oceasionally o the feet of all horses going much in snow and wet.

In submitting these remarks to the members of the St. John Agricultural Society 1 have too objects mainly in view : the first is to remind them that in the same letter in which their Secretary complained of the condition of horse-shoeing here and desired the aid of some one to improve it, he also said that the Society would take such person. under patronage and give him all the support in their power; on the fuith of the 30 representations I have spared no expense in fitting up a forge for hosse-shoeing where every improvement in the art is practiced and tite errors current in the country (being known) are studi. ous!y a void:d, and having done so I feel myself entitled to ask in return a shate of "patronage" and "support" from the Society and its members.

But heyond this my object is to improve the condition of the art generally in the Province, and, to do this, sundry mcans present themselves. The first I would mention is the publication by the Society (if they think proper) of this letter and illustrations. I am aware that its statements will be new to many, to some no doubt displeasing. Those who shoe as I have described the cultivators of ${ }_{2}$ tong thes and perpatrators of heel nailing will not like it, but this $\mathrm{I}_{\text {; }}$ cannot help, improvement must not keep back for them. If their modes will bear defending let them defend them, if they will not, let 'hem give them up for betier, and gither way the public and themselves will profit.
A second means that suggests itself is the sending copies of this to parties at a distance where opposition need not create prejudice, and from which some of those who practice the art may come and see for themselves the advantage of plans better than their own, and learn thom. A third means is altogether in the hands of the public. It is for those who care for the welfare of their horses, and like them to. hiave all the advantages of a good shoe well.put on, to send them though but once to have a trial and then to judge for themselves.

Gentlemen interested in improvement visiting St. John, though only now and then, by having their horsen feet at such times put in proper shape ald well made shoes put on them, might soon be the means of t spreading a better system than the present to quarters not otherwise likely to be soon icached, other means might be named, any in fact, by which better information could be spread, and more rational practices introduced, and we might hope soon to see the long toes disappear and with them the "sprung knees," "corny heels," "ringbones," "contractions," and other collateral evils.

In conclusion, Mr. President and Gentlemen of the St. John Agricultural Society, it would ill become me to advertise my own claims. to business by your means, where you are not interested, and to benefit as well as me : your Corresponding Secretary, in his Ietter to Professor Dick, to which I have already twice referred, says, "If you have any friend for whom you wish to provide comfortably, here is a, favorable opportunity for now doing so." I have no wish, gentlemen, for such "provision" as is here indicated : all I ask is such a share of employment in the calling which you sought me to come here for and practice, as may enable me to live by it. Nor do I ask this without offering you, as I have endeavored to show, advantages in exchange, which you can no where else obtain : but do not take this on my word, look into the matter yourselves, observe the number of horses, erippled in the differcent ways I have named, and, if fortunate in your own having escaped, reflect that it may not be always so, that he is as liable us othess to be the victim of a bad system. Ask if art and, siejence, where these haye most been cultivated, can do anything to. remedy or prevent such wholesale mischief, and, if you find that they? can, give them at least a trial, and do not be content to live fifty years. behind the rest of the world, even in the treatment of your horses' fect, ;s Gentemep, thave the honor to be,

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