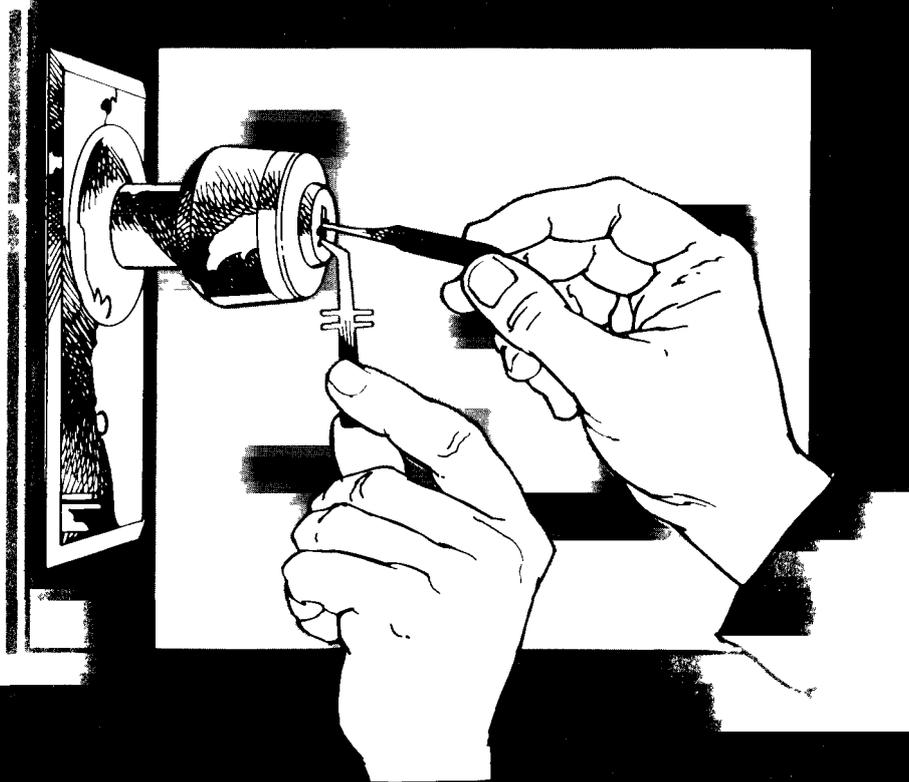


# ***ADVANCED LOCK PICKING SECRETS***



***Steven Hampton***

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## **Acknowledgments**

I would like to give special thanks to several people for their assistance with the research and development of this book. Mr. Steven Hillius, EE, provided the portable magnetic lock pick circuit design. I would like to thank Mr. Craig Herrington and Mr. Jack Folkerth for their help in creating and testing the new lock pick designs. Finally, I would like to thank a very good friend and kung-fu Master, Mr. Lucjan Shila, and Sensei John Angelos, for their contribution of the "Energizing Hands" exercise.

you must now have or you wouldn't be reading this book. There should be no doubt in your mind that you have the right stuff. And you do.

The second quality of a master lock picker is the ability to improvise when you are without lock picks—to be able to use such things as paper clips, small screwdrivers, pieces of wire, and hacksaw blades as tools. In other words, tools are always available to the master lock picker. And after finishing this book, you'll know, in greater detail, how to make your own professional tools.

**Third**, you have the understanding that if you break into a locked premise illegally, you could go to jail and not collect \$200. I really did not want to write about such a negative subject, but it is important that we, as master lock pickers, have some integrity. With our knowledge and skills, we need to maintain some kind of code. For instance, I only pick locks for fun and emergencies. Being broke is not an emergency. If it comes down to it, you can probably get a job as a locksmith apprentice. If you encounter someone locked out of his house or car, and you are going to help him get in, be sure he can prove the property belongs to him. At least, ask to see his driver's license, just in case the police get involved.

So, those three qualities—confidence, skillful means of applying tools for the purpose, and caution when it comes to breaching the security of unknown situations—will keep you out of trouble and let you enjoy your skills as a master lock picker.

Another important factor to realize is that practice does make perfect. You not only project yourself into the lock you are picking, but the process of mere repetition will accumulate to make your fingers very skillful. By projection, I am referring to the intense concentration

that leads to visualization of all the inner workings \*of the lock you are picking.

As I also mentioned in my previous book, a firm yet gentle touch on the tension wrench is needed along with a sense of *heightened sensitivity*, which is basically developed through practice and *mindfulness*—being fully aware of what one is experiencing while picking a lock. One of my favorite scenes from a popular private investigator show on television is where the star is trying to break into his house while the "lads" (two Doberman pinscher dogs) are madly racing toward him. He repeats over and over to himself, "Concentrate on the lock, don't look at the dogs, concentrate on the lock." Of course, he gets in, just in the nick of time. So, success is simply based on concentration, which develops into heightened sensitivity through practice and remembering to focus: concentration is the key.

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## Making the Tools

The fundamentals of lock picking were covered in my first book, *Secrets of Lock Picking*. In this volume, we will expand on tool design and manufacture, and look at the development of further skills needed to successfully pick open most locks on the market today.

Security is an uncertain endeavor at best. Since there is an infinite variety of ways to secure property and valuables with locking mechanisms, it is natural that the even greater variety of ways to open locks would spawn new tools. Having the right tools is very important: good tools make difficult locks open faster and easier. The ideal tools should be durable, portable, easy to use, and effectively designed to open a lock quickly. In this book, I would like to introduce some new tools my research company has designed and tested, and also show you how to make your own. This is not as difficult as you may think since these tools are made from easily obtainable metal stock. You should be aware that these tools are not on the market; they were developed solely for myself and my advanced students.

All you need to start a lock pick factory is an inexpensive 5-inch bench grinder with cutoff wheel on one

side, a pair of needle-nose vise grips, spray paint and stick glue for making the patterns, and a burnishing or Scotch-Brite wheel attachment for smoothing up rough edges.

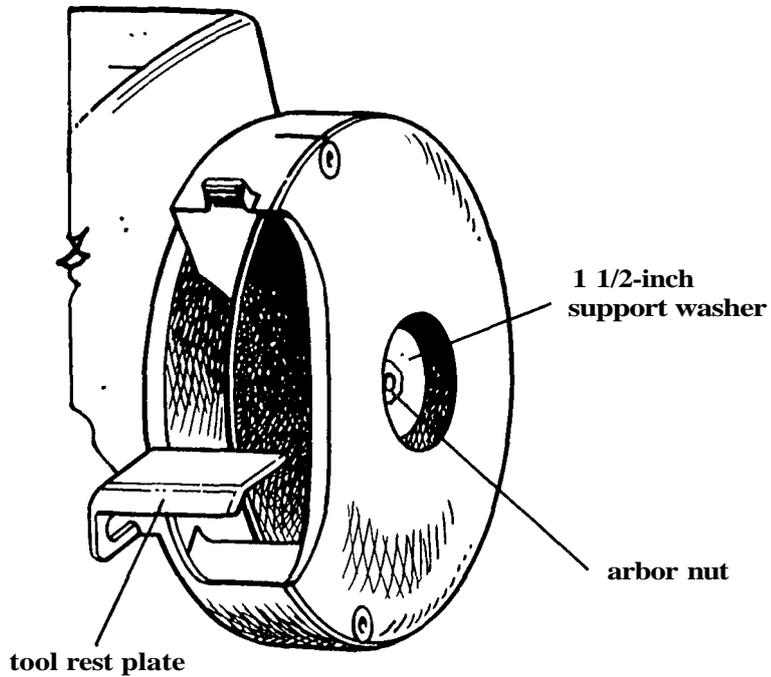
With this simple setup and a little practice, you can create virtually any kind of lock picking tool you will ever need. You can even create your own style if you so desire. Your first few tools may not turn out as you planned, but don't be discouraged: by the second or third try, your picks will look professional. Also, you'll never be without good lock picks since you will be able to whip up a set in minutes.

The bench grinder I use is a 5-inch Black and Decker, Model 7901 with a 1/2-inch arbor and 3600 RPM. This little plastic-cased grinder costs about \$30 at discount stores, and I have made hundreds of lock picks with it. If you can find a reasonably priced 6-inch grinder, go for it.

Be very sure that you read and understand all of the safety rules involved with bench grinders and wear goggles or eyeglasses with safety lenses. If you have glasses made with safety glass, they may protect your eyes, but they could be damaged by burn spots. I wear high temperature plastic safety lenses, mostly because of their light weight and their resistance to burn spots. Also, don't wear polyester shirts or pants, as you could burn tiny holes in them; wear old cotton work clothes instead.

When buying a cutoff wheel and burnisher, be sure that they are rated at or over the RPM limit of your grinder. Since I am right-handed, I mounted the cutoff wheel on the right side of the grinder for easier maneuverability. Make sure that the arbor nuts are tight. The tool rest must also be level and tight. You will have to mount it on your workbench or an old table for good

stability. Mine is mounted on a 2-foot by 3-foot, 1-inch thick board with 8-inch legs. With this setup, I can put it on a tabletop and stand while grinding. I also bored a 4-inch hole in front of the grinder for a water cup for quenching the metal to cool it down.

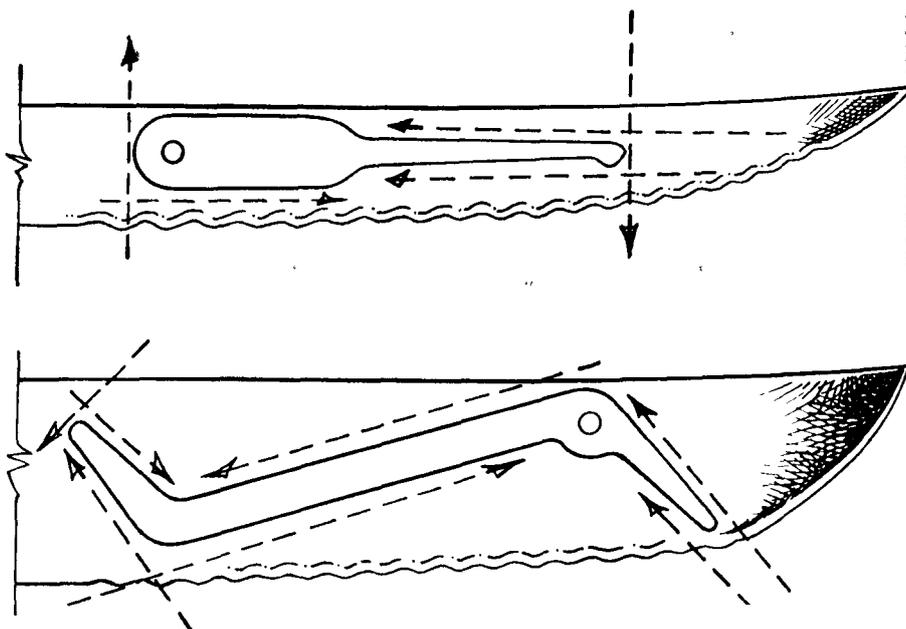


**Figure 1. Cutoff wheel.**

### **The Basic Lock Pick Set**

After years of research and practice, I have designed a set of picks that will let you into about 80 percent of

the cylinder locks that you might encounter in an average day. The pick illustrated in Figure 2 is made from a flat stainless steel steak knife. Steak knives are generally .032 inch to .035 inch thick and are already hardened; used as stock, they make durable and long-lasting picks. When properly cut out with a cutoff wheel and touched up with a grinding stone, they will outlast any commercial picks. Tension wrenches are about .040 inch to .045 inch thick, and I get that stock from pancake turners, spatulas, or large bread knives.



**Figure 2. Lock pick tools made from steak-knife stock.**

This tension wrench design allows you to open virtually all keyed tumbler locks with its long, narrow end. Automobile locks and other large tumbler locks demand the use of a wider and stiffer wrench which is on the other end of this design. The pick design is a diamond type that is medium sized to accommodate tight keyways and still have enough strength to prevent bending under normal lock-picking conditions.

All tool patterns illustrated in this book are the exact size of the tools. Make two photocopies of them to avoid destroying your book. Cut out one copy carefully, inside the line, with an X-ACTO knife. Clean the stainless steel stock with rubbing alcohol and wipe dry with a paper towel. Now, glue your pattern onto the steel, making sure that you place it exactly where you want it, without sliding it around on the stock. I use stick glue and apply it to the paper pattern only. Gently press down, without squishing glue out over the edges of the pattern. Let it dry for about ten minutes and spray paint over it with a high-temperature paint. I like a flat black paint, simply because of the greater contrast against the shiny steel, allowing one to see the pattern better. After another ten minutes, bake the painted steak knife for another twenty minutes in a warm oven at 200 degrees. When you take the painted pattern out of the oven, put it in a place where it won't be disturbed and let dry overnight.

The next day, carefully remove the painted paper pattern from your stock. You are ready to cut and grind. You can use this paper-to-steel technique with almost any lock-opening tool you want to make. If you want to duplicate a tool you have already made, just place it on your steel stock and spray paint directly over it. Let it set for sixty seconds and remove the tool from your

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stock by lifting it directly up with a large magnet. Be sure to hold the stock down while doing this.

When you have completed cutting and grinding your new tool, use the second photocopy to make final touch-ups and sizing. A finished tool should fit within the lines of the drawing.

Before you start grinding, here are a few helpful tips to make the job easier and more successful. The dashed lines with the arrows in the illustrations are the paths your cutoff wheel takes. This helps to eliminate excessive grinding. Use your vice grips to hold the stock. When that is completed, the rough form is ready to grind in smooth, even strokes. After final touch-ups are made, use a burnishing wheel to smooth out any sharp edges and corners. The burnishing wheel I use looks and feels like very hard rubber. It is impregnated with Carborundum.

If you have trouble getting the pick smoothly into a keyway of a standard pin tumbler house lock, you may have to lower the diamond point slightly by using the burnishing wheel on the bottom side of the pick's shaft only.

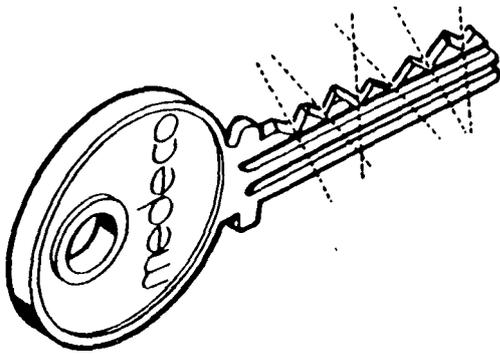
Also remember to quench the steel with water every three or four seconds when cutting and grinding. You don't want to void the steel's temper by getting it hot to the point of dark blue discoloration. If you can avoid the straw-yellow discoloration, do so as much as you can, but this is often not completely possible.

The holes are optional. I do this part of the job last. The holes must be drilled by a drill press with a sharp, high speed carbon drill bit about 1/8 inch in diameter. Stainless steel is very hard and dulls bits quickly. If you don't have a drill bit sharpener, plan on one drill bit per tool. They are about one dollar apiece, so this is not a

major expense. Center-punch the holes before drilling, and avoid hitting the punch any harder than if you were starting a nail into wood.

### **Angular Pin Tumbler Locks**

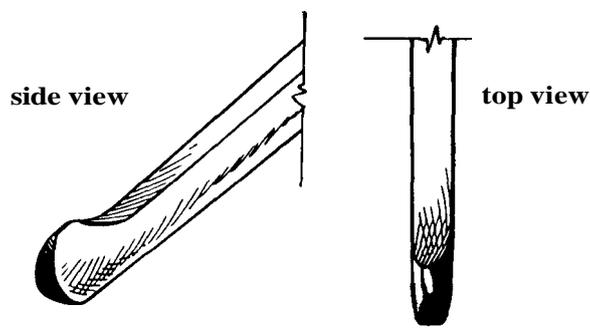
The Medeco Lock Company has designed a sophisticated lock which I refer to as an angular pin tumbler. Not only do the pins have to be raised to their proper shear point, they must also twist or turn in order to clear the cylinder-shell line. The pins are cut at an angle rather than on a horizontal plane. The keyway is also tightly corrugated to restrict foreign objects such as picks. Figure 3 shows a Medeco key with its angled cuts. This type of lock is considered by most locksmiths to be a high security device, and keying one up requires special tools.



**Figure 3. Medeco key.**

One of the newest developments in pick design is my twisted-wedge point lock pick. It is very effective on

these locks. To make this pick, take a standard diamond pick and put it in a vise with only the last 1/32 inch of the tip exposed. Heat gently with a propane torch for thirty seconds. Using a pair of pliers, gently twist the tip 15 degrees as shown in Figure 4. The vise will absorb most of the heat to keep the shaft of the pick from losing its temper. Remember to heat the tip until it turns blue, then twist. The tip will lose its temper, but it is not involved with much stress when picking so it will be all right. It is still harder than brass and will hardly wear. After it has cooled, carefully file it to a wedge-like shape, keeping the angle even. Burnish to remove any discoloration and file marks. If you have trouble getting this pick into the Medeco keyway, carefully grind off the bottom of the pick's shaft along its whole length until it slides in with little effort.



**Figure 4.** Twisted-wedge point pick.

One should practice with an old Medeco lock before attempting to open one in an emergency. The lock must be picked as if you were "raking" the tumblers so as to allow the pins to rotate as they are raised. A feather-touch tension wrench must be used. These locks require a lot of play with the tension wrench because the pins

must be free to rotate. I have had much success picking these locks with the twisted-wedge point pick and a feather-touch wrench. The feather-touch wrench is used until the pins have reached their shear point and the cylinder has been freed. At that point, a standard tension wrench or small screwdriver is needed to turn the cylinder to unlock the lock.

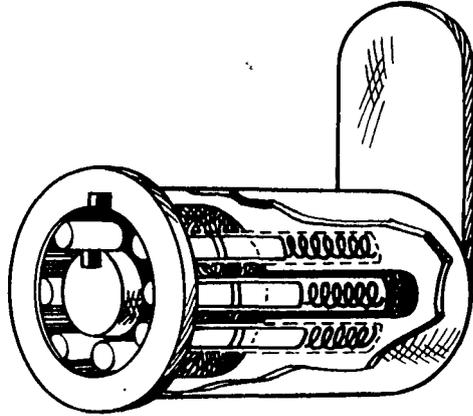
A major drawback to these locks (along with most other pin tumbler locks), which is to your advantage, is that they are made with relatively soft brass and can be easily drilled. The cylinder can then be turned with a medium screwdriver, shearing the tumbler springs and unlocking the lock. Drill 1/16 inch above the top of the keyway about 7/8 inch into the lock. This obviously destroys the lock, which runs about \$125 at 1988 prices.

### **Rim Cylinder Locks**

There are two major manufacturers of rim cylinder locks; the two different cylinder sizes are typically classified as large and small. These locks are basically pin tumbler-type locks that have their shear lines arranged on a circular plane rather than on a horizontal one. There are usually seven pins, and each one has to be depressed a predetermined distance to its individual shear line. When all of them are at shear point, the cylinder, located at the center of the lock, can be turned, thus unlocking the lock.

The major security factor of these locks is that the pins lock up again when the cylinder has turned only 51 degrees and must be picked two to three more times in order to accomplish the desired 180 degrees to unlock the lock. This takes a lot of time and patience, which

discourages illegal entry. Another factor that makes the rim cylinder lock a good security device is that it is very difficult to get a firm grip on the cylinder. Needle-nose pliers just get in the way of the pick and tumblers. Even L-shaped tension wrenches have a tendency to slip out just when the cylinder feels ready to turn.

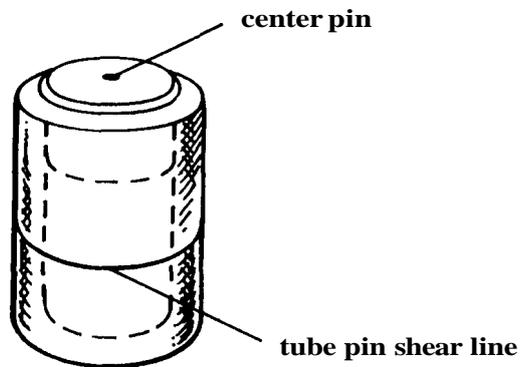


**Figure 5. Rim cylinder lock.**

One day while working on my plumbing, I got an idea. By designing a U-shaped tool to be used like a pipe wrench, one can grab hold of the cylinder with it and still have plenty of room for the pick to do its thing. When placed across the cylinder and used with a straight pick, this type of wrench would really speed up the process of picking these locks. The prongs of the wrench must not be burnished but left with sharp right angles for better gripping. Needless to say, it worked great. We will discuss how to make a tool that has this feature in three different sizes later in this chapter.

In an emergency, there is also the "make my day"

method in which you cut the pins out of the lock with a hole saw (without the centering drill bit). The cylinder is then turned with electrician's pliers or needle-nose vise grips.



**Figure 6. Lock cylinder.**

Another new development in lock technology that you should be aware of are the tube pins used on the higher security rim cylinder locks. They are tube-like structures with shear lines and usually surround four of the seven pins, making for a total of eleven pins. The lock is picked the same way as a regular rim cylinder, but takes even more time to open. Once the solid pins have been set with your pick, you must go back and depress the tube pins to their shear lines.

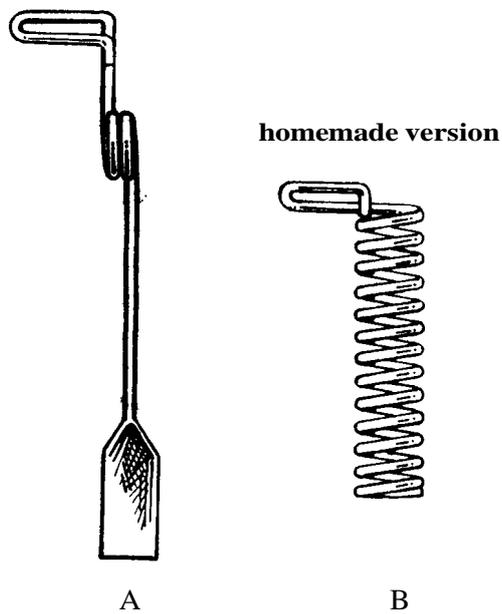
### **Mushroom and Spool Pin Tumbler Locks**

*Spool* refers to the top pins and *mushroom* refers to the bottom pin, the one that gets picked. These pins are

machined down to resemble spools and mushrooms so as to foil any picking attempts. They are installed in

**Figure 7. Spool pin (left) and mushroom pin (right).**

pin tumbler locks that are used in relatively high security situations. The indication that one has encountered a lock with these pins is that the cylinder seems to want to turn while picking, but stops short at about 10 or 15 degrees of its turning radius. They give a false sense of



**Figure 8. Feather-touch tension wrenches.**

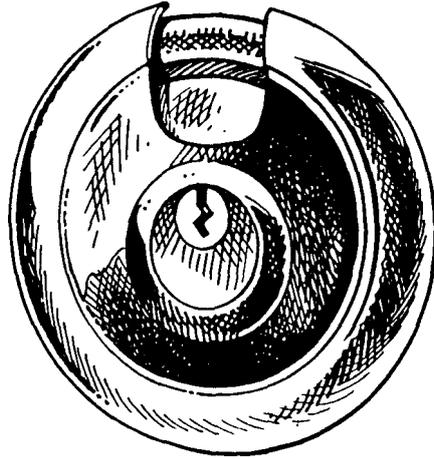
success by giving an audible and physical sensation that the lock cylinder has been released. In reality, the cylinder has been caught in the middle of one of these pins.

This problem can be overcome by using a feather-touch tension wrench (see Figure 8A). A feather-touch wrench is a spring-loaded tension wrench that regulates a slight pressure on the cylinder, which allows you to "bounce" these pins into place at their shear points with your pick. This may appear to be a sloppy way of picking a pin tumbler lock, but it is the only way one can overcome the tendency of these pins to snag on the shear line. This is a case where being sloppy requires more skill than being skillful.

Once the cylinder has been freed, a standard tension wrench or small screwdriver must be used to turn the cylinder and operate the unlocking action of the cam. Figure 8B shows a homemade version of the feather-touch wrench made from a medium-light duty spring. A pair of needle-nose pliers is needed to bend the loop that slides into the cylinder's keyway.

These pins are used in bank door locks and in other areas that are usually backed up with burglar alarm systems. Some padlocks have these pins. The American Lock Company uses them in its stainless steel-cased padlocks, which are machined to close tolerances and can be quite a challenge to pick open. But like most other locks, they can be picked open by an experienced lock picker with the right tools.

Another mushroom pin tumbler lock is the West German-made **Diskus** padlock from the Abus Lock Company. It has a stainless steel case with only four tumblers and a small corrugated keyway. It sounds simple, but I've seen this little padlock put locksmiths



**Figure 9. Mushroom and spool pin padlock.**

into contortions to pick it open. It's hard to hang onto, even though it's over 2 1/2 inches in diameter. The cylinder is mounted upside down and the tight keyway has those four tiny pins with a mushroom cut, which makes this lock one of the hardest to pick. Part of the problem is that most conventional diamond picks are too large for the keyway. Figure 10 is a smaller version of the diamond and should only be used with locks like this one, since the pick's shank is narrower and could bend on conventional locks.

One of my lock picking successes was picking one of these open (without ever seeing one before) in front of two master locksmiths who said it couldn't be done. If you have practiced the skills covered in my first book and have read thus far into this book, chances are you would be able to open an Abus Diskus padlock. To feel the round bolt slide open on this lock is a real feeling of success, and I hope you have a chance to open one. They

cost about \$12. Not only can you use it for practice, it is a very good padlock for personal use.

Figure 10 shows a pattern for a small diamond pick, which is required to open locks with small, tight keyways.

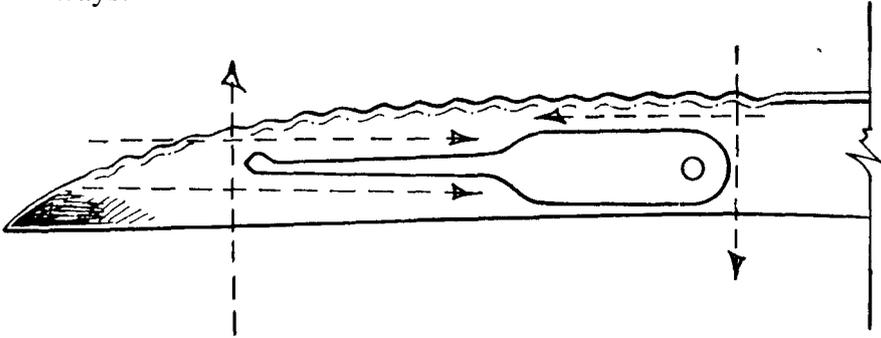


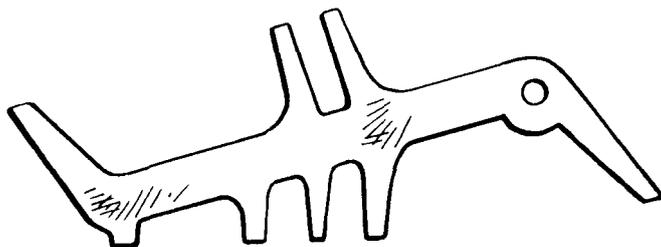
Figure 10. Small diamond pick.

### Universal Tension Wrench

Since a simplistic approach to lock picking is so successful, creativity can find its outlet in the area of lock pick design. The idea would be to develop simple, yet multifunctional and easy-to-carry lock picks. Also, designing new tools is fun.

Figure 11 illustrates a tension wrench I designed and made that is very handy to have around. It is called the "Dragon." It is a universal or multiple-use wrench that is like having six different wrenches in one wallet-size tool. It features three different types of rim cylinder tension wrenches, a double wafer lock wrench, an auto lock wrench, and a long, narrow snout for virtually all types of pin and wafer tumbler locks. The "legs" of the Dragon have a pipe wrench-like gripping action on rim cylinder

locks. The "wings" are used for double wafer locks to place the pick between them while picking. You may bend these wings slightly if you wish for better accessibility to the tumblers. If you do so, you must place the body of the Dragon in a vise and heat the wings for three minutes with a 1500-watt hair dryer. Slowly and carefully, bend both prongs at the same time with a pair of pliers. Remember to bend only to about 15 or 20 degrees; if you bend them any further, you might break off a prong.



**Figure 11. Universal tension wrench called the "Dragon."**

In order to make this tool, you will need .035-inch stainless steel stock. The piece should be 3 1/2 inches by 1 1/4 inches. Make your pattern as described on pages 9 and 10. When you have a painted pattern on your stock, rough cut it out with your cutoff wheel. You will have to use the cutoff wheel to get between the Dragon's legs and wings, so cut carefully in these places. The only way you will be able to finish these places is with the cutoff. The rest of the areas can be cut so that you have just a little metal to grind. Now replace your cutoff wheel with the burnishing wheel and smooth all sharp edges. Be sure to leave relatively sharp right angles on the Dragon's feet since they have to be able to grab rim

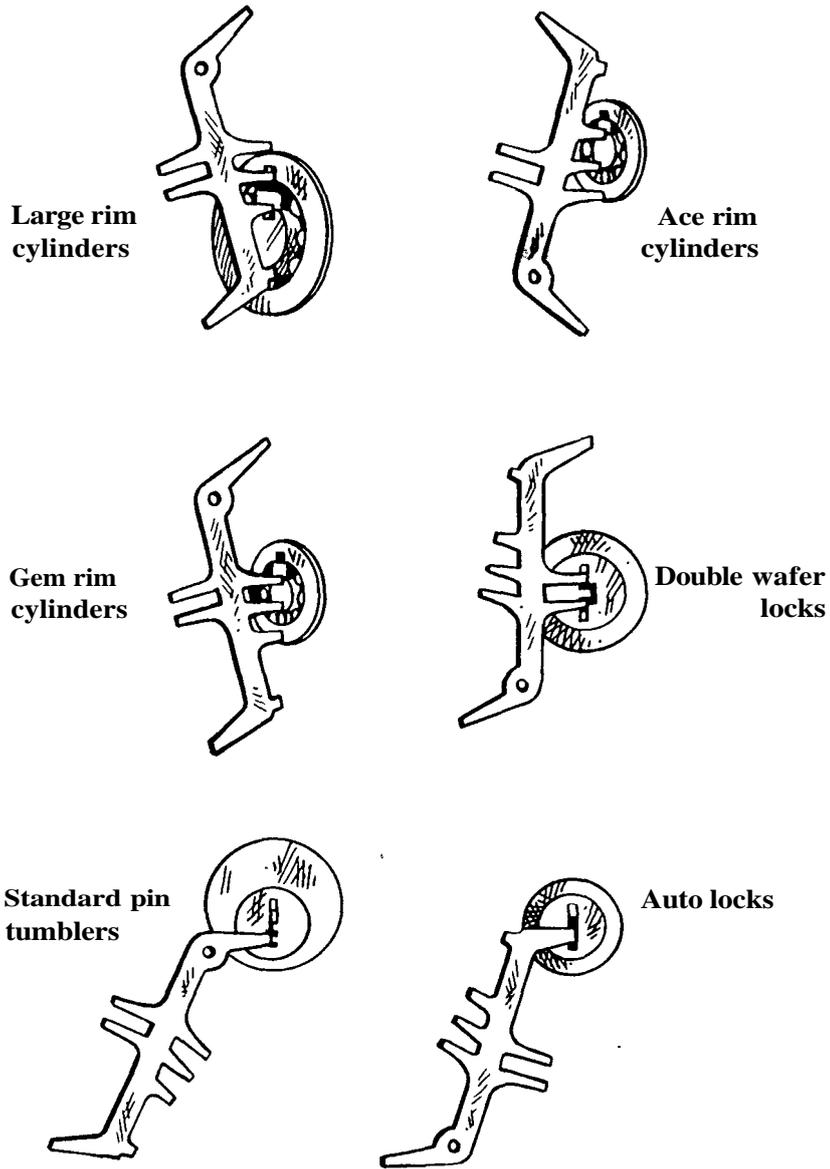


Figure 12. Using the Dragon universal tension wrench.

cylinders. The front of the first leg and the back of the last leg can be smoothed with your burnisher to keep the tool user-friendly; otherwise, it could snag clothing or your wallet.

The key chain hole is optional but may be drilled on a drill press since stainless is so hard. Start with a small drill bit to make a pilot hole, then finish it with a 1/8-inch bit. You may also want to chamfer the hole by hand with a 1/4-inch drill bit when you are done.

Making this tool is not as difficult as it may first appear. The hardest part is cutting out the paper pattern. The time it takes to make is well worth it, since nothing like it exists on the market. I am the sole patent owner and have given you permission to make it for your own use.

Figure 13 illustrates a pattern for a pick I call the "Serpent," which has a diamond tip pick on one end and a ball pick on the other. The diamond tip is obviously useful for pin and wafer tumbler locks, and the ball end is used exclusively on double wafer locks. If you wish, you can make the central 3/4 inch of the shank wider for easier handling. My hands are large, yet I find the size illustrated suits me fine. If you learned to pick tumbler locks with a safety pin, as I did, you'll find that this size will work well—you'll have less metal to carry.



**Figure 13.** Serpent pick.

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