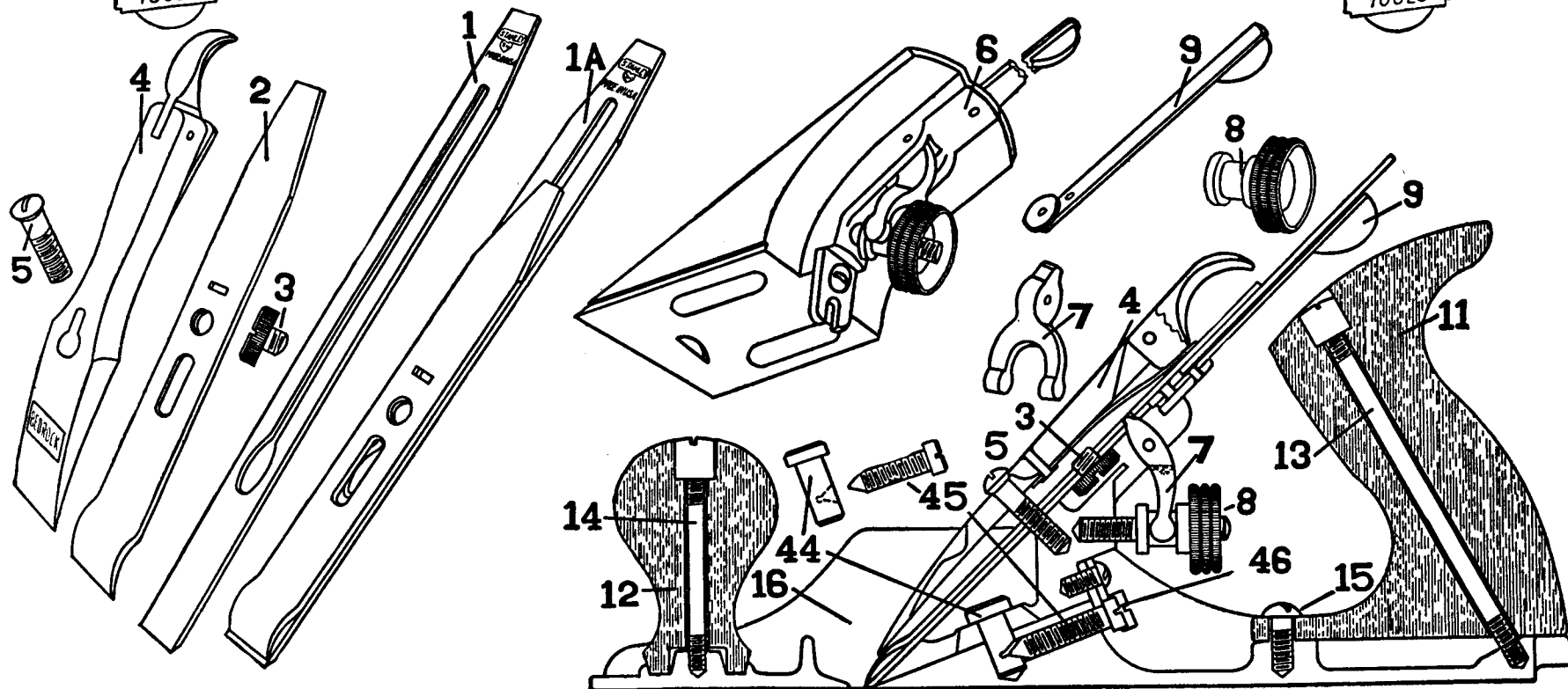


# STANLEY BED ROCK PLANES

STANLEY TOOLS

STANLEY TOOLS



1A DOUBLE PLANE IRON  
 1 SINGLE " "  
 2 PLANE IRON CAP  
 3 CAP SCREW

4 LEVER CAP  
 5 " " SCREW  
 6 FROG COMPLETE  
 7 "Y" ADJUSTING LEVER  
 8 ADJUSTING NUT

9 LATERAL ADJUSTING LEVER

11 HANDLE  
 12 KNOB  
 13 HANDLE BOLT & NUT  
 14 KNOB " " "  
 15 HANDLE SCREW

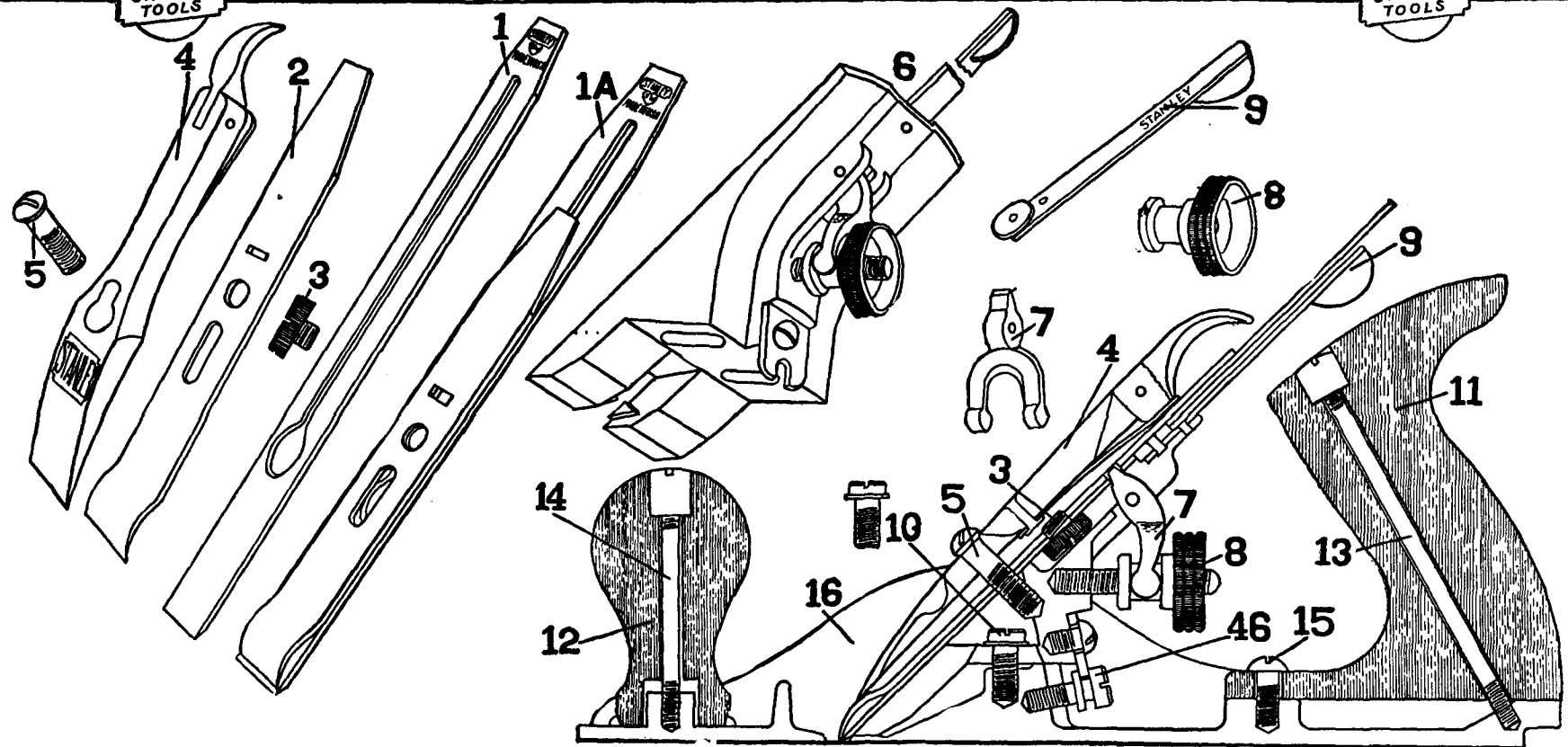
16 BOTTOM  
 44 FROG PIN  
 45 FROG CLAMPING SCREW  
 46 FROG ADJUSTING SCREW

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# STANLEY BAILEY PLANES



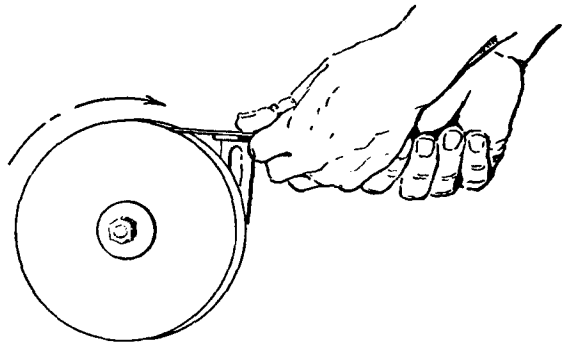
- |                             |                              |                                  |                                |
|-----------------------------|------------------------------|----------------------------------|--------------------------------|
| <b>1A</b> DOUBLE PLANE IRON | <b>4</b> LEVER CAP           | <b>9</b> LATERAL ADJUSTING LEVER | <b>14</b> KNOB BOLT & NUT      |
| <b>1</b> SINGLE " "         | <b>5</b> " " SCREW           | <b>10</b> FROG SCREW             | <b>15</b> HANDLE SCREW         |
| <b>2</b> PLANE IRON CAP     | <b>6</b> FROG COMPLETE       | <b>11</b> HANDLE                 | <b>16</b> BOTTOM               |
| <b>3</b> CAP SCREW          | <b>7</b> "Y" ADJUSTING LEVER | <b>12</b> KNOB                   | <b>46</b> FROG ADJUSTING SCREW |
|                             | <b>8</b> ADJUSTING NUT       | <b>13</b> HANDLE BOLT & NUT      |                                |

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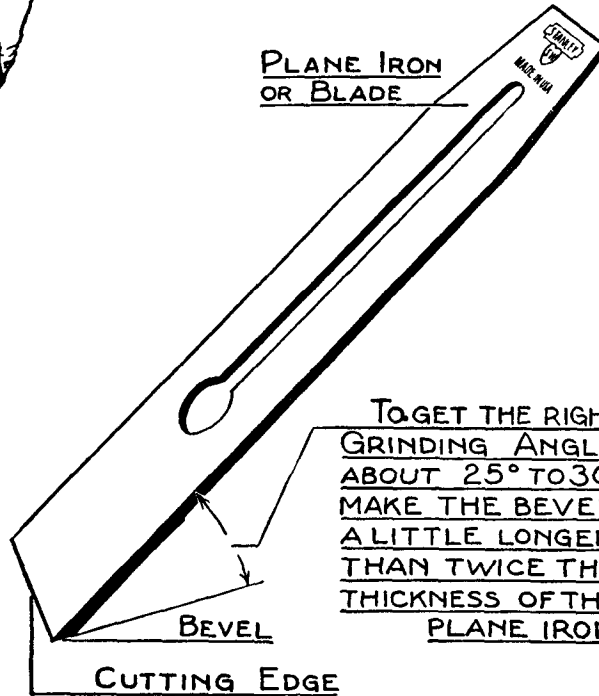
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# HOW TO GRIND STANLEY PLANE IRONS

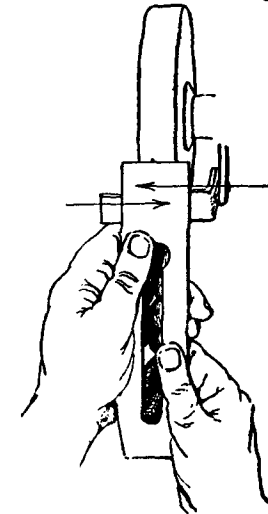
(THIS ALSO APPLIES TO CHISELS)



PLANE IRON  
OR BLADE



GRINDING STRAIGHTENS THE EDGE AND RESTORES THE BEVEL PREPARATORY TO SHARPENING BY WHETTING ON THE OIL STONE. THE GRIND STONE SHOULD TURN TOWARD THE PLANE IRON. USE THE GUIDE AS IT ASSURES A FLAT EVEN BEVEL. KEEP THE PLANE IRON COOL TO PREVENT BURNING, OR SOFTENING THE STEEL, BY FREQUENT DIPPING IN WATER. STONES RUNNING IN WATER OR OIL ARE PREFERABLE.



MOVE THE PLANE IRON FROM SIDE TO SIDE TO GRIND ALL PARTS OF THE BEVEL AND TO KEEP THE WHEEL TRUE. THE EDGE SHOULD BE STRAIGHT AND ALMOST AT RIGHT ANGLES TO THE SIDES OF THE PLANE IRON.

## WHEN TO GRIND A PLANE IRON OR A CHISEL

WHEN THE CUTTING EDGE IS NICKED.

WHEN THE BEVEL HAS BEEN WORN DOWN BY MUCH WHETTING.

WHEN THE BEVEL HAS BEEN ROUNDED BY CARELESS WHETTING.

AVOID A BEVEL TOO LONG AND THIN. IT IS WEAK AND WILL NICK EASILY.

AVOID A BEVEL TOO SHORT AND THICK. IT WILL NOT ENTER THE WOOD EASILY.

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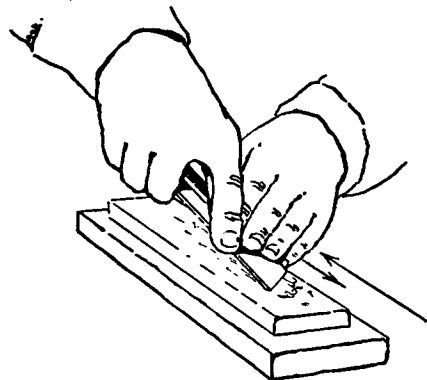
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# HOW TO WHET STANLEY PLANE IRONS

(THIS ALSO APPLIES TO CHISELS)

STANLEY  
TOOLS

WHET THE PLANE IRON ON THE OIL  
STONE TO PRODUCE THE REAL SHARP  
CUTTING EDGE



HOLD THE PLANE IRON IN THE RIGHT HAND  
WITH THE LEFT HAND HELPING  
PLACE THE BEVEL ON THE STONE WITH THE  
BACK EDGE SLIGHTLY RAISED  
MOVE THE PLANE IRON BACK AND FORTH

## TO KEEP THE BEVEL STRAIGHT

BE SURE THE HANDS MOVE PARALLEL TO  
THE STONE SO THAT THE ANGLE BETWEEN  
THE PLANE IRON AND THE STONE WILL  
STAY THE SAME THROUGHOUT THE STROKE

USE ENOUGH OIL TO KEEP THE SURFACE  
OF THE STONE MOIST. IT KEEPS THE  
STONE SHARP BY PREVENTING PARTICLES  
OF STEEL FILLING THE PORES OF THE STONE.  
TRY TO WEAR THE STONE EVENLY.

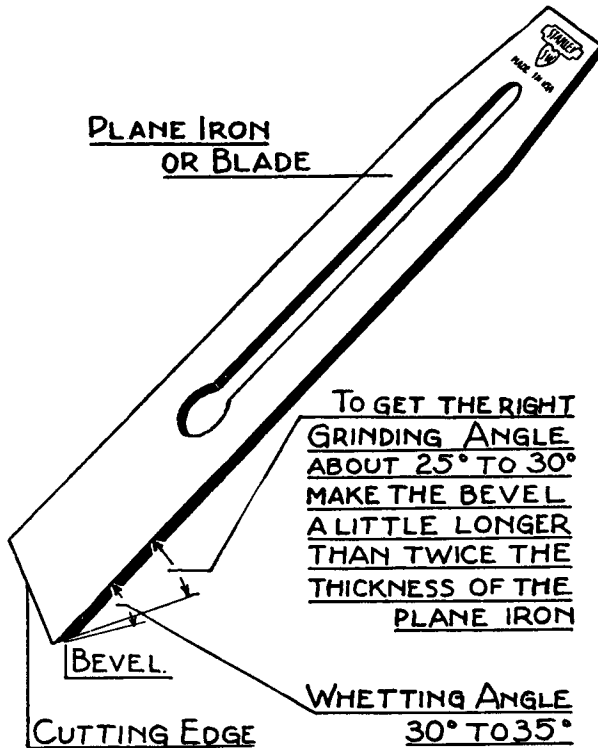


PLANE MARKS WILL SHOW LESS  
ON A FINISHED SURFACE IF THE  
CORNERS OF THE PLANE IRON  
ARE SLIGHTLY ROUNDED

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PLANE IRON  
OR BLADE

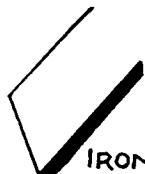


TO GET THE RIGHT  
GRINDING ANGLE  
ABOUT 25° TO 30°  
MAKE THE BEVEL  
A LITTLE LONGER  
THAN TWICE THE  
THICKNESS OF THE  
PLANE IRON

BEVEL

WHETTING ANGLE  
30° TO 35°

CUTTING EDGE

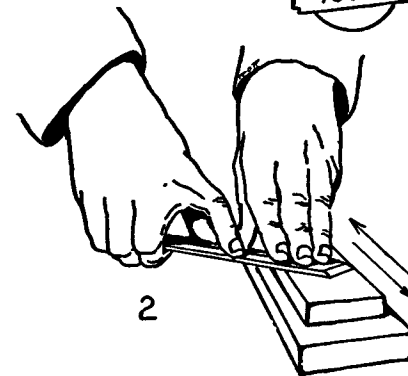


ROCKING  
THE PLANE  
IRON PRODUCES  
A ROUNDED BEVEL  
THAT WILL NOT  
CUT WELL.



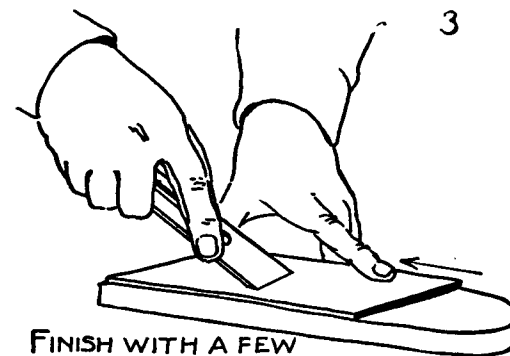
A BEVEL  
ON THE  
FLAT SIDE OF  
THE PLANE IRON  
PREVENTS THE CAP  
IRON FITTING TIGHT.  
SHAVINGS WILL  
CLOG THE PLANE

STANLEY  
TOOLS



REMOVE THE WIRE OR FEATHER  
EDGE BY TAKING A FEW STROKES  
WITH THE FLAT SIDE OF THE PLANE  
IRON HELD FLAT ON THE STONE.  
AVOID THE SLIGHTEST BEVEL ON  
THIS SIDE.

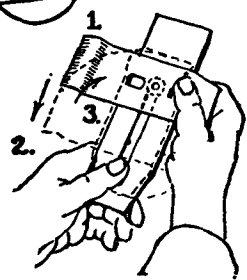
IF A NICK OR A SHINY EDGE OF  
BLUNTNESS CAN BE SEEN REPEAT  
BOTH PROCESSES OF WHETTING.



FINISH WITH A FEW  
STROKES ON A LEATHER STROP TO  
PRODUCE A KEENER EDGE.

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# HOW TO ASSEMBLE THE STANLEY DOUBLE PLANE IRON



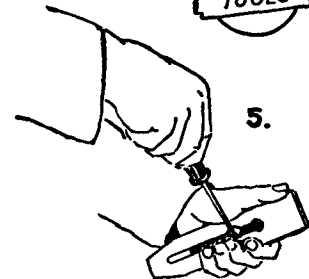
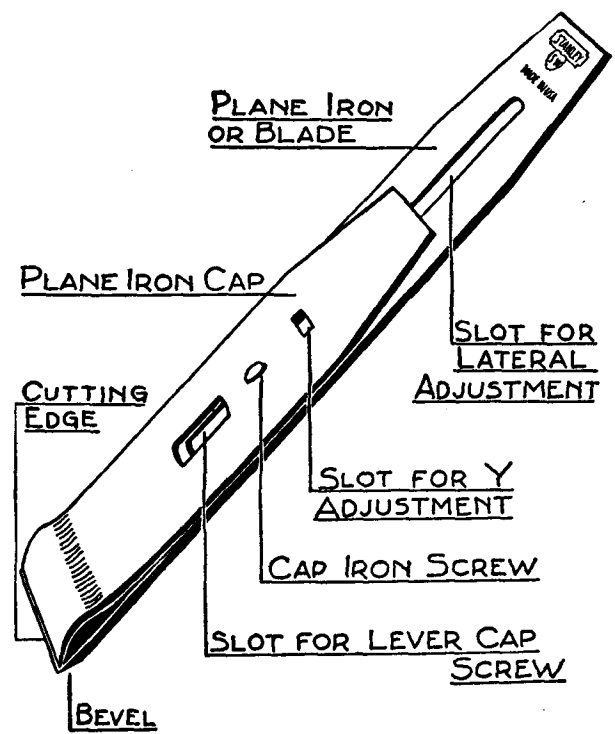
**TO PUT THE PLANE IRON AND THE PLANE IRON CAP TOGETHER.** 1-LAY THE PLANE IRON CAP ON THE FLAT SIDE OF THE PLANE IRON, AS SHOWN, WITH THE SCREW IN THE SLOT. 2-DRAW THE PLANE IRON CAP BACK. 3-TURN IT STRAIGHT WITH THE PLANE IRON.



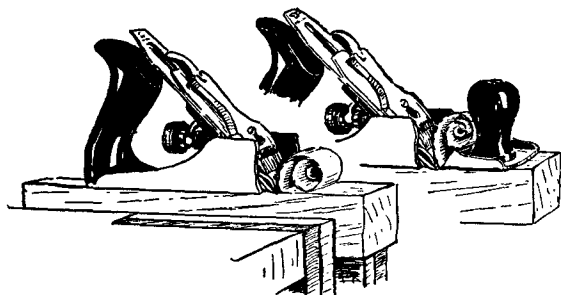
4-ADVANCE THE PLANE IRON CAP UNTIL THE EDGE IS JUST BACK OF THE CUTTING EDGE OF THE PLANE IRON. THE PLANE IRON CAP MUST NOT BE DRAGGED ACROSS THE CUTTING EDGE.

THE PLANE IRON CAP SHOULD EXTEND  $\frac{1}{16}$ " BACK OF THE CUTTING EDGE FOR GENERAL WORK. ON CROSS GRAINED OR CURLY WOOD IT SHOULD BE AS NEAR TO THE CUTTING EDGE AS POSSIBLE.

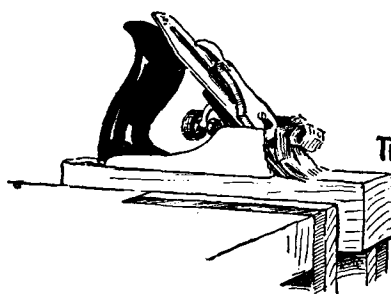
## DOUBLE PLANE IRON



5-HOLD THE PLANE IRON AND THE PLANE IRON CAP FIRMLY AND TIGHTEN THE SCREW TO HOLD THE TWO PARTS TOGETHER



THE PLANE IRON CAP BREAKS AND CURLS THE SHAVING TOGETHER WITH THE TOE OF THE PLANE IT PREVENTS THE WOOD SPLITTING AHEAD OF THE CUTTING EDGE PRODUCING A SMOOTH SURFACE. THE PLANE IRON CAP ALSO SERVES TO STIFFEN THE PLANE IRON.

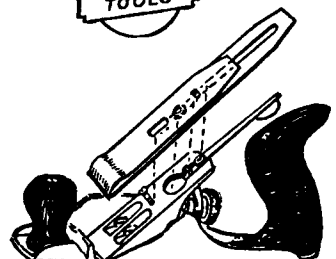


THE PLANE IRON CAP AND THE TOE REMOVED THE WOOD SPLITS AHEAD OF THE CUTTING EDGE LEAVING A ROUGH SURFACE.

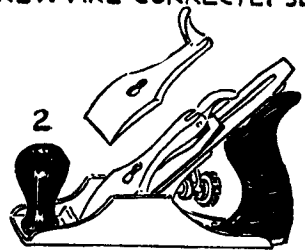
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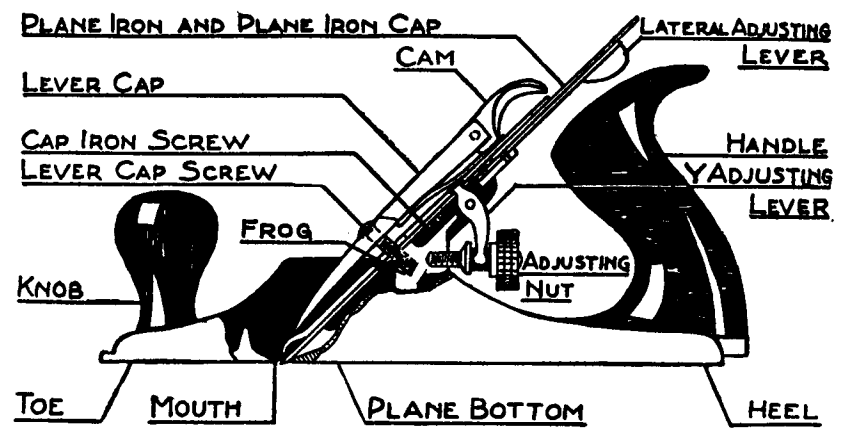
# HOW TO SET THE STANLEY PLANE



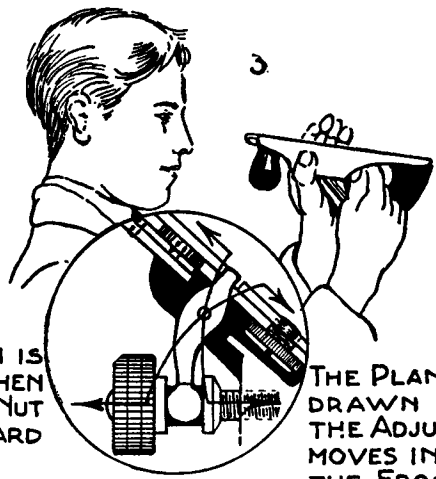
TO PUT THE PLANE TOGETHER LAY THE PLANE IRON, BEVEL SIDE DOWN, ON THE FROG. BE SURE THE ROLLER ON THE LATERAL ADJUSTING LEVER, THE END OF THE Y ADJUSTING LEVER AND THE HEAD OF THE PLANE IRON CAP SCREW ARE CORRECTLY SEATED



2  
SLIP THE LEVER CAP UNDER THE LEVER CAP SCREW AND PRESS DOWN THE CAM. IF THE PLANE IRON IS IN THE CORRECT POSITION THE CAM WILL EASILY SNAP IN PLACE. IF THE CAM WILL NOT SNAP IN PLACE EASILY, SLIGHTLY LOOSEN THE LEVER CAP SCREW. IF THE PLANE IRON IS NOT FIRMLY HELD WHEN THE CAM IS IN PLACE SLIGHTLY TIGHTEN THE LEVER CAP SCREW.

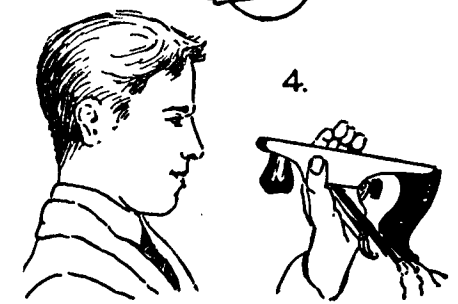


TO ADJUST FOR THE THICKNESS OF THE SHAVING SIGHT ALONG THE BOTTOM OF THE PLANE AND TURN THE ADJUSTING NUT UNTIL THE CUTTING EDGE PROJECTS ABOUT THE THICKNESS OF A HAIR.

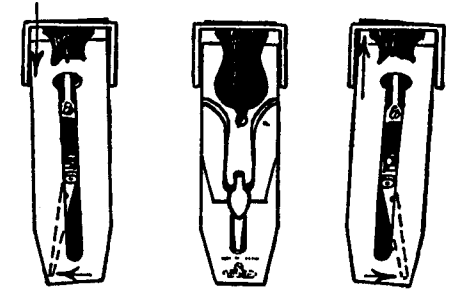


3  
THE PLANE IRON IS PUSHED OUT WHEN THE ADJUSTING NUT MOVES OUT TOWARD THE HANDLE.

THE PLANE IRON IS DRAWN IN WHEN THE ADJUSTING NUT MOVES IN TOWARD THE FROG.



4  
TO ADJUST FOR THE EVENNESS OF THE SHAVING SIGHT ALONG THE BOTTOM OF THE PLANE AND MOVE THE LATERAL ADJUSTING LEVER TOWARD THE RIGHT OR THE LEFT.



KNOB, LEVER CAP AND PLANE IRON CAP REMOVED TO SHOW THE ACTION OF THE LATERAL ADJUSTING LEVER.

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