



The Boys' Book of Engine-Building; How to Make Steam, Hot Air and Gas Engines and How They Work, Told in Simple Language and by Clear Pictures

Archie Frederick Collins

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This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1918 Excerpt: ...in the pipe $\frac{1}{2}$ inch from one end for the overflow pipe. Fit a cap to each end of the pipe, drill a $\frac{1}{8}$ -inch hole through the center of each one and thread them to fit a $\frac{1}{8}$ -inch pipe; these are for the steam nozzle and the valve chamber as shown in Fig. 51. Next you will need an elbow that will fit a $\frac{1}{8}$ -inch pipe and a piece of pipe $\frac{1}{8}$ inch in diameter and $\frac{1}{2}$ or $\frac{3}{4}$ inch long and threaded at both ends for the overflow pipe. Now make the nozzles and this is no easy job either way you do it. The first way is to take a brass rod $\frac{1}{8}$ inch in diameter and cut off three pieces; have one of them $\frac{1}{2}$ inch long, the second $\frac{1}{4}$ inches long and the last $\frac{1}{4}$ inches long. Drill a $\frac{1}{4}$ -inch hole, $\frac{1}{2}$ an inch down in the end of each piece, and a $\frac{1}{8}$ -inch hole the rest of the ways through; then ream out the holes to form conical chambers in them. File, or, better, turn down in a lathe, the ends of the nozzles to give them a conical form. TO WATER. INBO/LER. Fig. 51. Cross-section of a Steam Injector Another and easier way is to shape up the nozzles of $\frac{1}{8}$ -inch sheet copper and hard solder the seams. Whichever way you make them thread the large ends of the nozzles. This done, make a conical plug that will fit into the valve chamber, screw a stem into it and set it into the lower end; put in a ring with the hole over the stem and solder it there. Having finished all the parts of the injector the next thing is to assemble it. Screw the feed water nozzle into the cap; screw the elbow on the end of the nozzle and then screw the steam nozzle into the elbow so that the small hole in it is just inside the large hole in the feed water nozzle. Screw the valve chamber nozzle into the end of the other cap; screw both caps on the large pipes and, finally, screw the overflow pipe into the shell. tyow, coupl...

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