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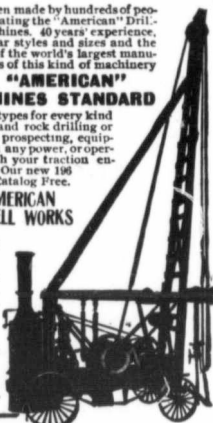
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The Marlin Firearms Co.,
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by crosses while the products of combustion are shown by small squares.

In diagram D the piston has compressed the air, driving it into C and as soon as the contents of the chamber is of an explosive nature, it takes fire from the heated surface of C. In diagram D the piston is started on the forward stroke, expanding the products of combustion.

Another plan of ignition with a highly heated surface is to drive the charge through a grate built of thin strips of platinum. The grate is brought to the proper temperature by means of an exterior flame before the engine is started and thereafter the grate receives sufficient heat from the burning gases to ignite the following charge.

This method is useless in hit-and-miss types of engines because a few idle strokes will allow the grate to cool below the temperature that is necessary for that of ignition. Thin rods and even small bolts have been employed in much the same manner as the platinum grate.

This, we believe, covers in a general way the various devices that have been used for the ignition of the charge within the cylinder by contact with a heated surface. Next month we shall take up Method No. 3, viz. by the spark of an electric charge. This is most important and most widely used of all the various methods and is withal the most successful.

Wanted it Settled.

The undertaker who relates the following incident is in position to sympathize with the doctor who is needlessly called out on a long night ride.

I was called up on the farmer's telephone line one night and a voice said:

"Mr. Day, can you come up to Silas Brown's house right away?" Before I could express the customary condolence the phone was hung up. It was an eight-mile drive to Si's house. I put my outfit in my wagon and put my horse into a jog trot.

When I got there I found the house all lit up. Silas and half a dozen neighbors were sitting in front of a big, open fireplace cracking nuts and drinking cider.

"Who has passed away?" I asked.

"Nobody. Whole darn family lively as crickets," said Si. "But we've been argin'." Jim Blount says you mix your embalming fluid yourself and I say you buy it ready made. We want you to settle it. Jim can't hear over the telephone and he wouldn't take my word if I talked to you."

The Vulcan Iron Works

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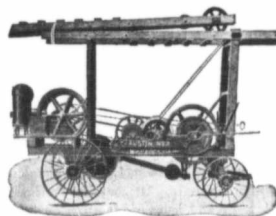
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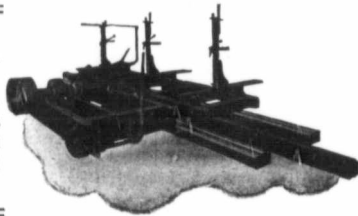
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