(12) **United States Patent**
Mervin

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(54) **SAW TEETH, CUTTING**

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Letters Patent.

The Schedule referred to in these Letters Patent and making part of the same, containing a description in the words of the said Andrew J. Mervin, himself of his improvement in the Machine for cutting saw teeth and Punching.

Be it known that I Andrew J. Mervin of the Borough of Muncy, Lycoming Co, State of Pennsylvania have made an improvement in the Machine for cutting saw-teeth, which is described as follows— The bed to receive the different parts of the apparatus for cutting saw-teeth— the stock to receive the dies. the levers used for working the cutters are somewhat similar to those already in use. My improvements consists in having moveable dies: the plate and screw for securing the female die; The screws & plate for regulating the stock containing the dies. the regulator for determining the size and shape of the teeth— The moveable dies are made of steel or cast iron, they are made in the shape of the teeth required, & have dove-tail shanks for securing them in the stock. A piece of sheet lead is also used for making them firm & steady. The plate for holding down the female die is made of cast iron extending to the front of the female die and is made fast by a nut and screw on the top of the bed or frame— The screws & plate for regulating the stock containing the male dies are let in through the side of the bed or frame and keep against a moveable plate which presses against the stock containing the male dies and are for the purpose of making the dies out true— There is also a screw working through a bar on the top, pressing on the stock and for keeping it steady.— The regulator for determining the size and shape is made of a piece of iron having a screw-bolt for securing it fast in a slot or opening in the bed made for that purpose.

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this slot will be made sufficiently large to admit the teeth of a circular saw to be cut in the same manner as those of long saws the bed with the whole apparatus can be made fast to a bench or otherstand by means of a dog & a hand screw

Operation. the male die of the shape of the tooth required is fastened in the stock and the female die fastened down by the plate & screw the saw plate is set in front of the female die on its edge, the lever which works the stock and male die is then brought down, this forces the male die through the plate of the saw into the female die and the tooth is thus cut. pieces cut out being forced forward. the invention here claimed and desired to be secured by Letters Patent consists in the before described moveable die the plate for holding down the female die. the screws and plate for regulating the stock. the regulator for determining the size & shape of the tooth, with the arrangement and adaptation of the several parts of the Machine for cutting & gumming saws right & left and for punching.

Witnesses
Wm. Fleet Smith
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630 Words