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11.

The Schedule referred to in these Letters patent, and making part of the same, containing a Description in the words of the said Jacob Perkins himself of an improvement in the mode of Manufacturing Nails &c A short and general description of Jacob Perkins's Invention. I have invented and discovered a mode of making Nails by which much manual labor may be saved by means of an Elliptick, or revolutionary cutting Engine, and a Vulcan or heading Engine. The principle of the cutting Engine is that of a revolutionary motion i.e. a roller with 7 cutters fixed in it & the circumference of the roller upon, which passing by another die in a standard or plate, cuts off pieces of iron may be placed between either of the dies on the roller, and the die in the plate, directly above which is an aperture or slit sufficient for a piece of flat iron to pass thro' the roller being turned in a shear shape tho' exceedingly true, acts also as a guide to the shifting plate, and brings it in that direction with each die in the roller, so as to cut up the whole strip of iron without any manual assistance, after it is once put in the aperture of the shifting plate - the heading Engine is worked by the revolution of a tappet wheel, having three tappets each of which lifts up a hammer, which gives three strokes each revolution of the wheel, on the nail which is fixed in a Vice directly under the hammer. the three strokes forming the head of the nail. there is also affixed to the tappet wheel, a piece in a curved form, which catching the heel of a lever forces the jaws of the Vice open so as sufficiently for the purpose of heading. & when the curved piece ceases to operate on the Vice-lever, a spring pulls open the Vice the reverse way, and the tappets again reaching the heel of the lever, another nail is put in, the head nail dropping down immediately on the jaws of the Vice opening. It is to be observed one cutting Engine may with ease be drove by Water 250 revolutions in a minute each revolution produces 7 Nails. One Boy often or twelve years of age can easily supply six Engines so that the labor of one Boy can cut three thousand Nails p Minute, the heading Engine will head nearly Nails p Minute, by the assistance of one Boy, or more if it is possible for the Boy to hand them. a more particular description of these Engines is given in the Specification accompanied with drawings and written references hereunto annexed. And I the said Jacob Perkins do now hereby certify that this Schedule contains a short and general description of my invention as specified in the petition by me presented to the Secretary of State praying that Letters patent may issue for the same according to law.

Jacob Perkins

Witnesses
Sam. Coates
Edw. Wheemaker

Photographic copy made from the original March 3, 1911.