

L16-1795

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The Schedule referred to on 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 Office, or revolutionary cutting Engine, and a
Nailing or heading Engine; The principle of the cutting Engine is that of a revolutionary motion, i.e.
i.e. a roller with 2 cutters fixed in it to the circumference of the roller apart, which passing by another
die in a standard or plate, cuts or pinches off what 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 skew shape tho' exceedingly true, acts also as a guide
to the shifting place, 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 evolution of the wheel, on the
which is fix'd in a Vice directly under the hammer, the three strokes forming the head of the nail;
there is also affix'd to the tappet wheel, a piece in a curved form, which catching the tail of the nail
presses the jaws of the vice together sufficiently firm for the purpose of heading
it, when the curved piece comes to operate on the vice-jaws, a spring pulls open the vice-jaws
which close, and the tappets again reaching the tail of the nail, another nail is put in the
vice, 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 evolution
produces 2 Nails & one Boy upon or twelve years of age can with ease supply six Engines
so that the labor of one Boy can cut three thousand Nails per minute, the heading
Engine will head forty Nails per minute, by the assistance of one Boy, or more, if it be
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 having
been presented. And I the said Jacob Perkins do now & do 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. Cratias
Edw W. Shoemaker