

(No Model.)

H. K. JONES.
WIRE NAIL STOCK.

No. 318,564.

Patented May 26, 1885.

Fig. 1.

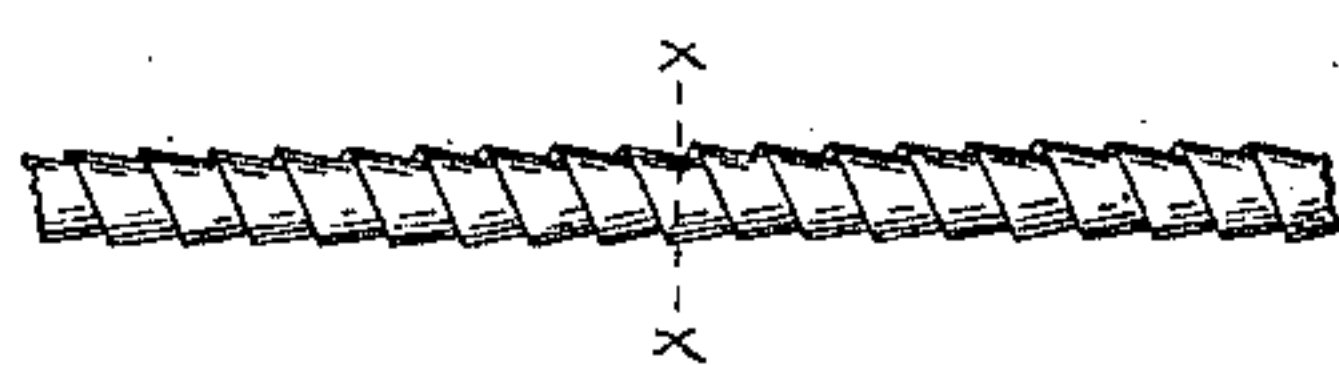


Fig. 2.



Fig. 3.



Witnesses.
John Edwards Jr.
Eddy N. Smith

Inventor.
Horace K. Jones.
By James Shepard
Atty.

UNITED STATES PATENT OFFICE.

HORACE K. JONES, OF HARTFORD, ASSIGNOR TO THE RUSSELL & ERWIN MANUFACTURING COMPANY, OF NEW BRITAIN, CONNECTICUT.

WIRE-NAIL STOCK.

SPECIFICATION forming part of Letters Patent No. 318,564, dated May 26, 1885.

Application filed February 24, 1885. (No specimens.)

To all whom it may concern:

Be it known that I, HORACE K. JONES, of the city and county of Hartford, and State of Connecticut, have invented a certain new and
5 useful Improvement in Wire for Making Nails, which improvement is fully set forth and described in the following specification, reference being had to the drawings which form a part of and accompany said specification.

10 My invention relates to wire of a certain peculiar construction, (hereinafter described,) which, being formed in a continuous strip or piece, is afterward cut into desired lengths and headed and pointed to produce a perfect
15 drive-nail.

Figure 1 in the annexed drawings is a side view of a section of my improved form of nail-wire. Fig. 2 is a cross-section on line *xx* of Fig. 1, and Fig. 3 represents a finished nail
20 made from said wire.

My particular invention, briefly described, consists in producing a continuous wire of any suitable metal, whose outer surface or periphery is provided with a continuous spiral
25 rib, *a*, the upper face of said rib (that is, the side nearest the head of the nail) being at right angles to the longitudinal center of the wire, or approximately so. The opposite side of said spiral rib is beveled back gradually, ending at or substantially at the base of the next adjoining spiral. By so forming the two sides of the spiral rib the nail may be readily driven home, but cannot be easily drawn out,

the form of the spirals being such that each coil acts as a ratchet-tooth or barb when once
35 entered in wood. Said nail may, however, be removed, if necessary, and without serious injury to the wood, by unscrewing it.

Said new form of spiral nail-stock may be produced either by cutting with dies, by passing annealed wire through or between powerful edge-bearing rolls or between a series of grooved rolls, each of which engages a section of the periphery of said wire, or by swaging, all of said methods being practical. After
40 said wire is cut into proper lengths one end of such cut sections is upset to form the head *d*, and the other end drawn or swaged to form the point *e*, the process of and machinery for heading and pointing being the same as now
45 commonly employed in producing wrought nails.

Having thus described my invention, I claim—

The within-described nail-stock, consisting
55 of a continuous metallic rod or wire having formed on its periphery throughout its entire length, for the purpose specified, a spiral rib whose upper face is approximately at right angles to the longitudinal center of said rod or wire.
60

HORACE K. JONES.

Witnesses:

M. S. WIARD,
W. C. RUSSELL.