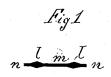
(No Model.)

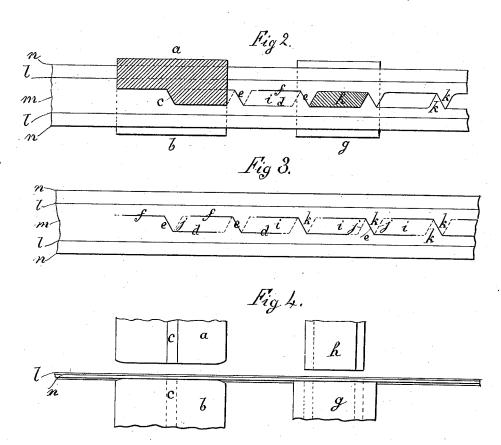
A. P. THAYER.

DIE FOR MAKING BARBED METALLIC FENCING.

No. 307,351.

Patented Oct. 28, 1884.





WITNESSES Styllogan Objectoryan

INVENTOR Anson & Thayen

UNITED STATES PATENT OFFICE.

ANSON P. THAYER, OF BROOKLYN, N. Y., ASSIGNOR TO THOMAS W. HALL, OF SAME PLACE.

DIE FOR MAKING BARBED METALLIC FENCING.

SPECIFICATION forming part of Letters Patent No. 307,351, dated October 28, 1884.

Application filed November 30, 1883. (No model.)

To all whom it may concern:

Be it known that I, Anson P. Thayer, a citizen of the United States, residing at Brooklyn, in the county of Kings and State of New York, have invented new and useful Improvements in Dies for Making Barbed Metallic Fencing, of which the following is a specifica-

This invention relates to dies for shearing a 10 double blank strip apart and forming two barbed rods therefrom; and it consists of shearing-dies for making slits at intervals along the strip and partly forming the barbs, and a punch for removing the waste material and 15 completing the form of the barbs, and also completing the separating of the two rods from the one strip, said dies and punch being constructed and arranged as hereinafter fully described, reference being made to the accompa-20 nying drawings, in which-

Figure 1 is a cross-section of the blank strip to be sheared and barbed. Fig. 2 is a plan view of the bed-die and horizontal section of the movable die for making slits at intervals 25 along the strip, also a plan of the bed-die and horizontal section of the punch for completing the barbs and the separating of the rods, with a portion of the blank strip as when being slitted and barbed by the dies. Fig. 3 is 30 a plan view of a portion of the blank strip to be separated and barbed, with lines showing the manner of the operation of the shearingdies on it. Fig. 4 is a side elevation of the dies represented in Fig. 2 and the blank strip 35 between them.

I make a pair of shearing dies, a b, having an oblique offset, c, at the middle of the cutting-edges, said offset being as long as the barbs that are to be made, and the inclination 40 is the same as the bevel edges of the barbs. The faces of these dies are a little convex, as represented in Fig. 4, to enable them to cut through the metal at each side of the dies to make short slits def through the uncut metal 45 at intervals along the strips, the said slits being partly along the base-line d of the barbs and between two barbs of one rod; thence diagonally at e across between two barbs, one to each rod, and thence along the base-line f be-

tween the barbs of the other rod, and from 50 one barb to another, or nearly so, and by the side of these dies, and a suitable distance from them, either in the same bed and movable stock or separately, I arrange a bed-die, g, and a punch, h, to act successively to the shearing- 55 dies, and punch out the waste pieces i between the barbs by cutting along the diagonal lines j conversely to the lines e cut by the shearingdies a b, and also finishing the portions left uncut along the lines df, the said punch h and 60 dieg having parallel oblique edges corresponding the said punch dfing to the lines j between two barbs, \vec{k} , and parallel sides corresponding to the parallel lines df cut by the shearing-dies. The blank strip is to be fed along dies a b, and thence to 65the punch gh a distance equal to the distance of the barbs apart at each movement. The punch g h may be located in such proximity. to the dies a b that the waste pieces i will be punched out in their first position at rest after 70 passing from said dies a b, or the second, as here shown or farther on. The blank strip consists of the two cores or rods l, middle web, m, and outer flanges, n. The convex faces of the dies a b enable the metal to bend over the cor-75 ners of the dies at the ends of the slits when punched apart, so as to prevent the cracking and tearing of the metal that would be caused at the ends of the slits if the faces of the dies and the cutting-edges were formed on a straight 80 line from side to side.

What I claim, and desire to secure by Let-

ters Patent, is—
The combination of a pair of shearing-dies, a b, having the oblique offset c, located mid- 85 way between the extremities of the cuttingedges, and a punch and die, gh, having parallel sides, and also having oblique parallel edges converse to the oblique offset cof the dies a b. substantially as described.

In witness whereof I have hereunto signed my name in the presence of two subscribing witnesses.

ANSON P. THAYER.

Witnesses:

F. A. THAYER, L. H. Morgan.