

UNITED STATES PATENT OFFICE.

CEPHUS MANNING, OF CHILLICOTHE, OHIO.

IMPROVED MODE OF TEMPERING STEEL.

Specification forming part of Letters Patent No. **57,349**, dated August 21, 1866, antedated August 8, 1866.

To all whom it may concern:

Be it known that I, CEPHUS MANNING, of Chillicothe, in the county of Ross and State of Ohio, have invented a new and useful Mode of Tempering Steel; and I do hereby declare the following to be a full and clear description of the same, reference being had to the description of the same.

I take raw linseed-oil, of any desirable quantity, placed in a vessel to submerge whatever article is to be tempered.

For car or large wagon springs the vessel should be of length, width, and depth to allow of submerging the spring or an article of much length edgewise, as it would be less liable to spring than it would be by submerging an article lengthwise.

The advantage of using linseed-oil is that the steel is less liable to crack in tempering and produces a better and tougher spring than the usual mode of tempering in other oils or anything heretofore used.

The heating and drawing the temper are done as in the old and usual way of doing it.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

The use of raw linseed-oil, in the manner and for the purpose specified.

CEPHUS MANNING.

Attest:

WM. DOEGEN,
P. KILLIN.