

February 27, 1932.

Mr. A. W. Hecker,
1976 East 66th Street,
Cleveland, Ohio.

Dear Mr. Hecker:-

We wish to confirm our phone conversation of a few minutes ago.

Our letter of the 19th is the basis on which we expect you to proceed with the manufacture of the jaws. You will be held responsible for furnishing us jaws that will prove entirely practical for use with our wrenches. You know as well as we do what is required. The steel selected must be of good quality. The forgings must be sound and free from defects. The machining and polishing must be accurate and nicely done -- please note that our drawings require that the small end of the rack be polished. We are satisfied that you will have no difficulty at all in meeting the above requirements. The most important requirement is that the heat treatment used must give a sufficient degree of hardness to prevent the teeth from battering up in use. Yet this treatment cannot result in a degree of hardness which will result in teeth chipping out and either jaw snapping in two when severe pressure is applied. (When we say severe pressure, we mean the maximum pressure that a man can exert on the handle of the wrench).

If you select the proper steel, the degree of hardness can be accurately regulated by the treatment used. We expect you to arrive at a practical treatment by experimenting with various treatments. Please bear in mind that, in our opinion, the same degree of hardness for the gripping teeth and rack teeth will be risky. You will probably want to draw the temper a little more in the rack than in the head of the movable jaw.

We are placing a good deal of responsibility on you, but we are also giving you a free hand in securing the desired results by permitting you to select the steel and the treatments with the privilege of securing the

necessary engineering advice at our expense.

If you give us jaws that are practical for use in a pipe wrench, you will find that we are very easy to please. You know why the jaws furnished us to date are not satisfactory and can certainly avoid trouble of a similar nature.

Your promise to rush our order through is appreciated, and we trust that you will have no difficulty in making very prompt delivery.

With best wishes, we are,

Yours very truly,
THE HARRIS WRENCH COMPANY, INC.

JPF:R

General Manager

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