greatest transmission capacity for the belt its application, the writer would say that treated with Cling-Surface was found when our tests have of necessity been of too short there was the least possible tension on the duration to give conclusive answers. The belt and when the belt was running so slack general effect of the Cling-Surface is to soften that the sides very nearly touched. It will the belt and put it apparently in the best be noted also that the slip of a treated belt is much less, and the arc of contact greater for a given total tension than with the untreated belt.

doubtless due to the rapid change in the arc some time at least. of contact, which diminishes with increase of The foregoing report was written in April tension. This causes a dimunition in the last. Since when in October, Prof. Carpentransmitting power which is greater than that produced by the increase of pressure due to the increased tension on the belt.

condition for transmitting power and retain-ing its good qualities. The surface produced by the Cling-Surface remains apparently un-changed after several weeks of use, and the The falling off in carrying capacity with in- inference to be drawn is that the material crease of belt tension for the treated belt is has an effect which continues permanent for

> ter again writes to the Cling-Surface Mfg. Co. :-

Later tests of the use of Cling-Surface With the untreated belt such change is very on belting substantiate in every particular slight, and consequently a falling off in carry- the statements made in my report of April ing capacity for light tension takes place. 17th. They also indicate higher efficiency In regard to the questions raised as to the of transmission and less loss of power than preservative qualities of Ching-Surface and in the case of belts treated with Cling-Sur-to the normaneury of the affect produced by face than in the case of belts not contrasted to the permanency of the effect produced by face than in the case of belts not so treated,

when working under the conditions prevailing at the time of the earlier test. This is due to the fact that the slipping of a belt causes considerable loss of power, the power so lost passing off in heat. The use of Cling-Surface reduces the slipping and consequently reduces the loss of power occasioned by

the use of belts that slip. During the past six months I have had occasion to observe the gractical use of Cling Surface in a number of instances. In all such cases Cling-Surface has improved the belts by softening them, and as far as I can determine in the limited time (seven months) tends to preserve the leather of which they are constructed.

## THE LITCHFIELD CAN FAUCET.

The Can Faucet shown in the accompanying illustration is being marketed by J. M.



When writing to Advertisers kindly mention THE CANADIAN MANUFACTURER.