

UNITED STATES PATENT OFFICE.

ISRAEL BENT, OF LOWELL, MASSACHUSETTS.

IMPROVEMENT IN PROCESSES FOR CLEANING AND EXTRACTING OIL FROM LEATHER.

Specification forming part of Letters Patent No. **174,761**, dated March 14, 1876; application filed September 23, 1875.

To all whom it may concern:

Be it known that I, ISRAEL BENT, of Lowell, in the county of Middlesex and State of Massachusetts, have invented a new and useful Process of Cleaning and Extracting Oil from Leather, which process is fully set forth in the following specification.

This process is intended to be applied principally to "card" leather, as used in woolen mills. The leather in the cards comes to be completely saturated with oil from the wool, and it is the object of this invention to extract the oil from the leather, so that both can be of use in the future. Old belting, &c., can also be cleaned by the same process.

The cleaned leather is of use to shoe-manufacturers principally, and the oil can be utilized wherever it is desired.

My process is to first warm the leather somewhat, so as to soften and render somewhat liquid the oil in the old leather, then place it in vessels of proper size, then turn a sufficient

quantity of naphtha over the leather in the vessels to thoroughly saturate it. Let it stand about three hours, and then pass the leather between heavy rollers to press out the naphtha and oil at the same time. If the oil is not entirely removed, repeat the operation until it is thoroughly clean. New naphtha wholly or in part may be used when the operation is repeated, or the old naphtha may be used until it is nearly as thick as the oil itself. Evaporate the naphtha and the oil is left. The leather is thus rendered perfectly clean, and is of use to boot and shoe manufacturers.

I claim as my invention—

The process of extracting oil from leather, consisting first of warming it, then immersing it in naphtha, and lastly in submitting it to pressure, all substantially as described.

ISRAEL BENT.

Witnesses:

D. H. BURNHAM,
CHARLES O'GRADY.