

UNITED STATES PATENT OFFICE.

JOHN F. WOOD, OF BOSTON, MASSACHUSETTS.

TREATMENT OF EMERY-WHEELS.

SPECIFICATION forming part of Letters Patent No. 227,402, dated May 11, 1880.

Application filed December 18, 1879.

To all whom it may concern :

Be it known that I, JOHN F. WOOD, of the city of Boston, county of Suffolk, and State of Massachusetts, have invented a new and
5 useful Improvement in Emery-Wheels made with a binding material soluble in water, of which the following is a specification.

My invention consists in an emery-wheel made with a binding material soluble in wa-
10 ter, saturated in melted paraffine until the paraffine has completely permeated all the pores of the wheel. It can be readily ascer-
tained when this is accomplished by observ-
ing the wheels while they are undergoing the
15 treatment.

The paraffine should be as hot as it can be made by conveying steam through pipes brought in contact with the paraffine.

My invention is especially useful for treat-
20 ing emery-wheels made in the manner before

described, which wheels are to be used for grinding wood fiber in the manufacture of pa-
per-pulp, for the fiber must be ground when
saturated with water; and if emery-wheels
made with a binding material soluble in water 25
are used for this purpose they must be spe-
cially prepared, or the water will dissolve the
binding material, and the wheel will, of course,
fall in pieces and be worthless.

I claim as my invention—

As an article of manufacture, an emery-
wheel having a binding material soluble in
water, and said wheel saturated with paraf-
fine, substantially in the manner and for the
purpose described. 30

JOHN F. WOOD.

Witnesses:

GEO. S. BOUTWELL,

FRANCIS M. BOUTWELL.