

# UNITED STATES PATENT OFFICE.

BENJAMIN ROWLAND CROASDALE, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVED BAGS FOR GUANO, PHOSPHATES, AND OTHER FERTILIZERS.

Specification forming part of Letters Patent No. 97,169, dated November 23, 1869.

*To all whom it may concern:*

Be it known that I, BENJAMIN ROWLAND CROASDALE, of Philadelphia, in the county of Philadelphia, in the State of Pennsylvania, have invented a new and useful method of preparing bags, by which such bags are made impervious (or nearly so) to the action of acids, alkaline, or saline matters, and for protecting such bags and their contents from the action of the atmosphere; and my invention pertains more particularly to the preparation and preservation of ordinary bags for the packing of phosphates, guano, &c.

My invention consists in covering the inte-

rior of a bag with a coating of tar, pitch, gum, or their equivalents, (and, where desired, the exterior also,) and then a thin coating of crude petroleum or other oil, and the exterior of bags with a coating of oil also.

What I claim as my invention, and desire to secure by Letters Patent, is—

A bag coated and saturated with substantially such materials as herein described, for the purpose set forth.

BENJ. ROWLAND CROASDALE.

Witnesses:

A. LESLIE DUVALL,  
GOVE MITCHELL.