

UNITED STATES PATENT OFFICE.

PETER SOUDERS, CHESTER SMITH, HORACE MILTON CRAIGHEAD, AND
NORTON SOUDERS, OF RIEGLESVILLE, NEW JERSEY.

BLEACHING COMPOUND FOR JUTE PAPER-STOCK, &c.

SPECIFICATION forming part of Letters Patent No. 312,525, dated February 17, 1885.

Application filed September 22, 1884. (Specimens.)

To all whom it may concern:

Be it known that we, PETER SOUDERS,
CHESTER SMITH, HORACE M. CRAIGHEAD,
and NORTON SOUDERS, citizens of the United
States, residing at Rieglesville, in the county
of Hunterdon, and State of New Jersey, have
invented certain new and useful Improve-
ments in Bleaching Compounds for Jute
Paper-Stock, &c.; and we do declare the fol-
lowing to be a full, clear, and exact descrip-
tion of the invention, such as will enable oth-
ers skilled in the art to which it appertains to
make and use the same.

This invention has relation to bleaching jute
paper-stock; and it consists in the process
hereinafter set forth, and pointed out in the
appended claim.

In carrying out this process the jute-stock
is first thoroughly washed in the usual man-
ner. Then a composition of ten pounds of
alum, four pounds of South Carolina clay, and
two gallons of water is boiled and added to
five hundred pounds of the stock, which is
then run in the mixing-engine for fifteen min-
utes, after which fifty pounds of bleaching-
powder are added. In like proportion the com-
position and bleaching-powder are used with
larger amounts of the stock, so that one-half of
the bleaching-powder used in the processes
heretofore employed is saved, as it has re-
quired one hundred pounds of bleaching-pow-

der to bleach five hundred pounds of this stock.

Resulting from this process it is designed
to produce a paper of better color and greater
strength, and the manufacture is cheapened
and facilitated, not only by lessening the quan-
tity of bleaching-powder, but by avoiding to
a great extent the annoyance of foam and
the use of coal-oil in killing the same. It also
saves the wire-cloth jacketing and the felts
used on the paper-machines.

Having described this invention, what we
claim, and desire to secure by Letters Patent,
is—

The process of bleaching jute paper-stock
which consists in mixing with the stock a com-
position of alum and clay raised to steam-
heat, and afterward adding a quantity of
bleaching-powder, in the proportion and man-
ner substantially as set forth.

In testimony whereof we affix our signatures
in presence of two witnesses.

PETER ^{his} × SOUDERS.

CHESTER ^{mark.} SMITH.

HORACE MILTON CRAIGHEAD.

NORTON SOUDERS.

Witnesses:

THOMAS NEWMAN,
CHS. F. FITCH.