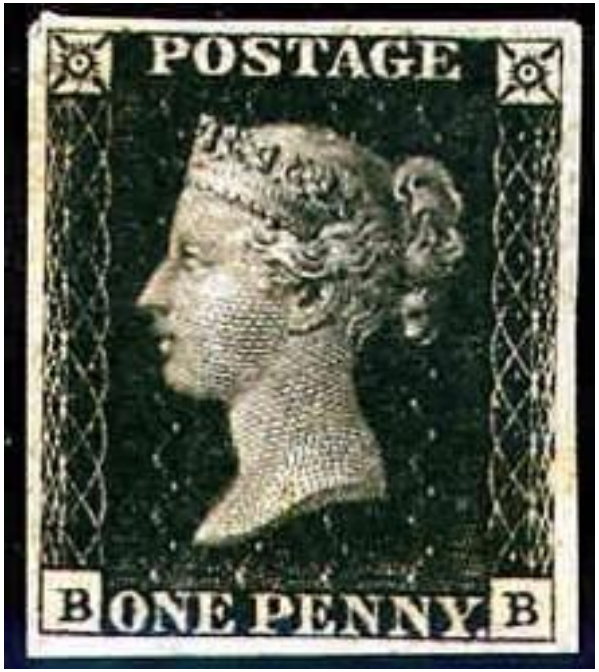
RIT
Plate Identification of
Great Britain Penny Red
by Deep Computer Scanning

By Larry Rausch

Penny Black
1840



Penny Red(star)
1841

Penny Red 4 corner
1864-1880

1d Four Corner Red

1864 to 1880

12 Columns A to L

Plate Number 195

20 Rows A to T

12 Column A to L
20 Rows A to T

12 x 20 = 240 Different stamps per sheet

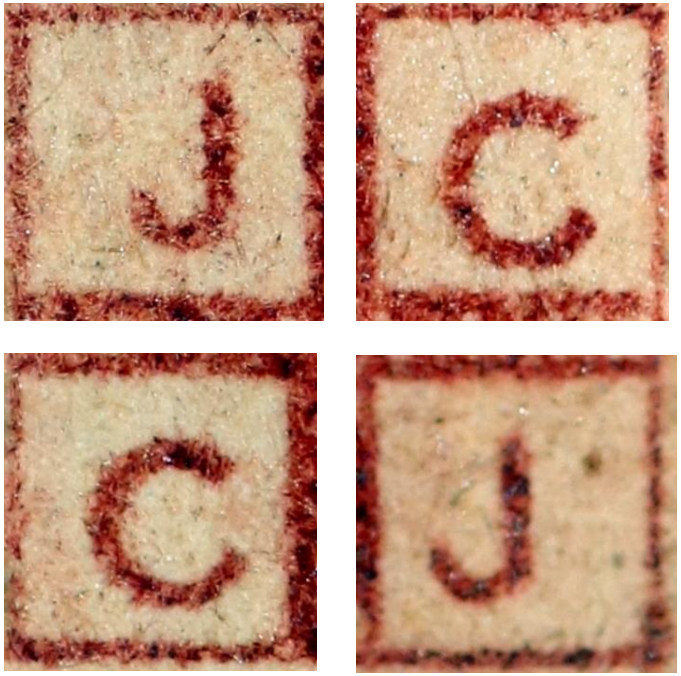
151 Different plate numbers

240 x 151 = 36240 different stamps

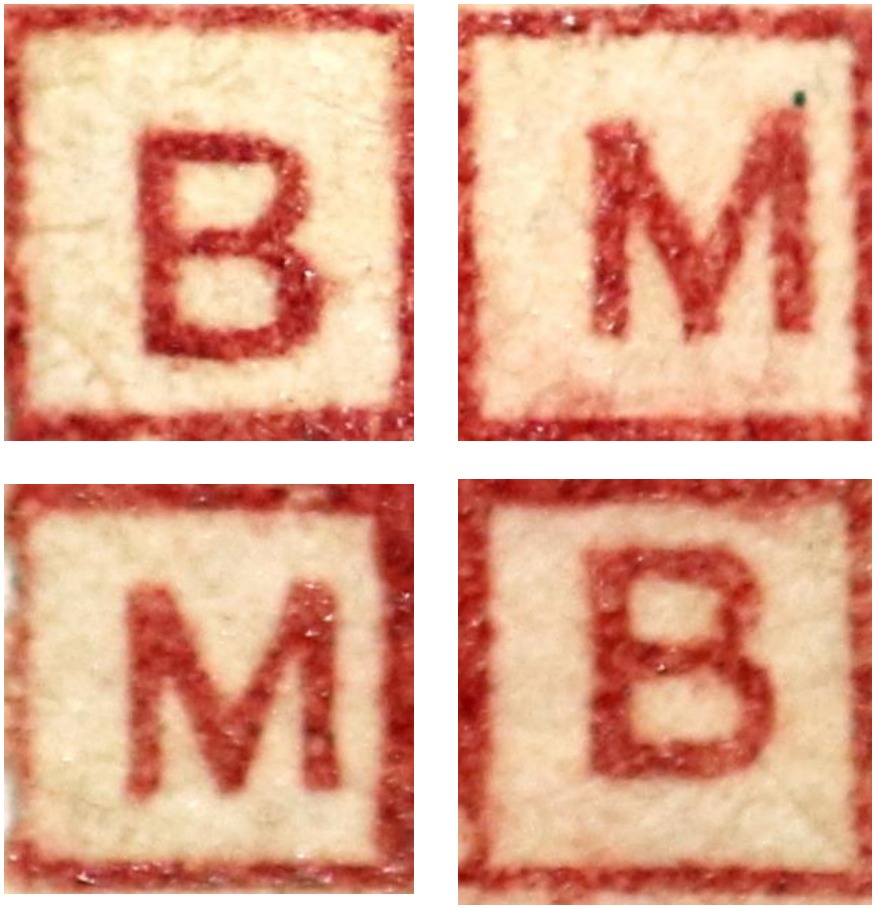
30,000 Digital Images provided

Research Goal
Identify Plate Number

unk 072 CJ

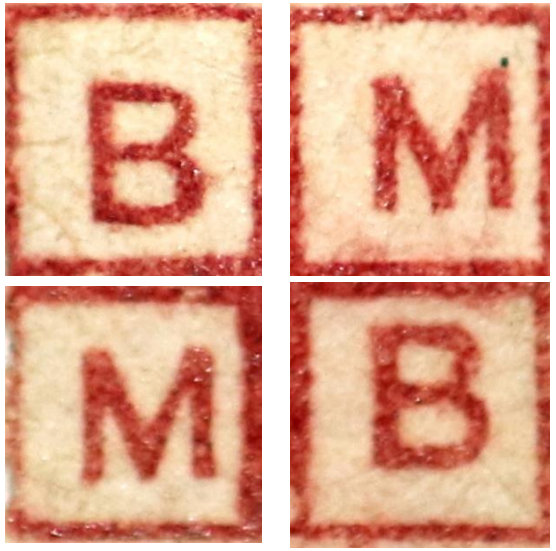


Location of corner letters can identify plate number



Location of corner letters can identify plate number

091 078 MB

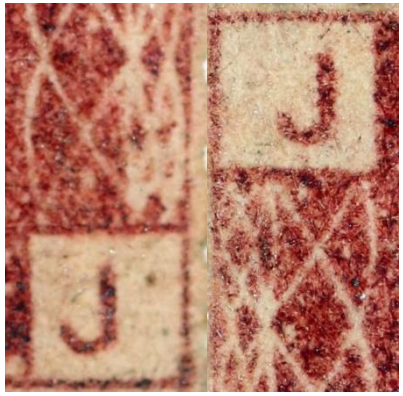


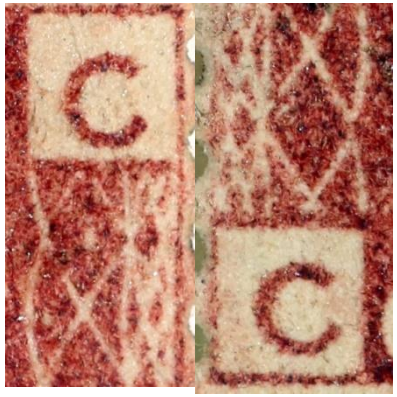
Reference 078 MB

J
POSTAGE
C
C
ONE PENNY
J
unk 072 CJ

Three Scanning Areas

Resolution: 224x224 each





Testing
30,000 Plate ID digital photos
21,000 Scanned
9,000 tested against scans

Result First Test

151 Plates: 88.9 % Accuracy

8001 out of 9000

"That's
all
folks!"