

Document 7

Letter from Harriet  
McPherson of Auburn to  
[John Green] Proud.  
Baltimore, [1838?] re: refur-  
nishing the new chapel  
at Catoctin. (transcribed)

*Meredith Papers*  
(Ms. 1530) Maryland  
Historical Society

McPherson to Proud, 1838  
MHS: 1530

Auburn  
Thursday 28th.

My dear Mr. Proud. I was sitting at the breakfast table thinking most seriously and pleasantly of writing you today, when your note was handed me, & right glad I was to hear from you, as it affords me the opportunity of telling you at once of our delightful surprise of yesterday when upon opening a box at the Furnace, we beheld the beautiful gift from our interested friends of St. Lukes -- & of our still warmer friend Mr. Proud. The altar is beyond any idea that I had formed of it, chaste & beautiful -- The walnut cross several exclaimed "just-the thing" -- The Lectern exactly what we need -- and all in good taste -- Our most heartfelt thanks we cannot express, for the interest you have so decidedly manifested for

know the cost, I will at once remit you the money & be heartily obliged to you for attending to it for me. As regards the plate of which you speak, we would be very glad indeed to have it, as we are now prevented from using The Offertory Service from want of one -- My kindest regards to Mr. Baker & thank him for having thought of us -- my sister has not yet left Baltimore & if you could send it to 73 Green Street, she will gladly take charge of it -- The idea of the tags made as you direct would suit admirably I think for such a congregation and we will try to make them.

Mr. Windsor is to be ordained priest early in December & we are anxious to have our church in order before the visit of the Bishop at that time -- if you can so arrange it, we would like so much to have you present -- and <sup>would</sup> enjoy a visit from you at any time -- and I hope you will remember that you have promised us one before long.

And now I am going to trouble you about another matter -- you kindly told me, but I have forgotten what it is you mix with the whitewash to make an appropriate color for a church -- we wish to wash ours outside as well as inside -- if you will let me know what the ingredients are, we can have this done as soon as I hear from you. Those employees here to do such things say they don't know what we mean.

Our rectory is quite comfortable, & Mr. Windsor goes to house-keeping this week -- I beg that you will excuse the liberty I am taking in asking of you so many favors -- I could not trespass so far upon a stranger's kindness, did I feel that you were a stranger, but your very friendly acts & the encouraging tone of your note, have induced me to look upon you in another light -- and you must not object to being added to my list of friends & treated as such -- With warm remembrances from the Doctor believe me

Yrs. most truly,  
Harriet M<sup>C</sup>Pherson

Document 8

Printed copy of  
patent application  
#182,371 concerning  
an improvement in  
the process for de-  
phosphorizing iron as  
devised by John B.  
Kunkel in 1876.

*electrostatic copy  
from Patent Corres-  
pondence, National  
Archives Records  
Service, RG241*



# UNITED STATES PATENT OFFICE.

JOHN B. KUNKEL, OF CATOCTIN FURNACES, MARYLAND.

## IMPROVEMENT IN PROCESSES OF ELIMINATING PHOSPHORUS FROM IRON.

Specification forming part of Letters Patent No. 182,371, dated September 19, 1876; application filed August 7, 1876.

### *To all whom it may concern:*

Be it known that I, JOHN B. KUNKEL, of Catoctin Furnaces, Frederick county, Maryland, have invented certain new and useful Improvements in Processes for Eliminating Phosphorus from Iron; and I hereby declare the same to be fully described, as follows:

My invention relates to processes of purifying iron from the phosphorus which has heretofore been practically inseparable from it, and producing in a cheap and simple manner iron free from any tendency to "cold-shortness" when caused by the presence of phosphorus, and admirably adapted for use in the Bessemer converter; and the said invention consists in the abstraction of the phosphorus from the iron by means of magnesian compounds in the manner and under the conditions hereinafter more fully set forth, and is applicable alike to the production of iron free from phosphorus direct from the ore, and to the purification of pig iron, the rationale of my process consisting in taking advantage of the great affinity exhibited by phosphorus for magnesia, which affinity seems not to be disturbed by any possible elevation of temperature.

In carrying out my invention I proceed as follows: When operating upon phosphatic ores I use, instead of the ordinary limestone flux, dolomite, or magnesian limestone, a well-known double carbonate of lime and magnesia. The charges of ore, carbonaceous matter and dolomite are fed into the ordinary blast-furnace in the usual way, the proportions of ingredients being substantially the same as when ordinary limestone is used as a flux, and governed by like conditions, namely, the relative amounts of oxide of iron, silica, and lime naturally in the ore. Should the ore be extraordinarily phosphatic it is advisable to increase the charge of dolomite from ten to one hundred per cent. A portion of the dolomite may be introduced through the tuyeres.

The working of the furnace being, under the above conditions, in nowise different from

the ordinary practice, and being well understood by those practicing the art, need not further be adverted to.

When operating upon metallic iron to eliminate its phosphorus I apply the dolomite either in the cupola or puddling-furnace, as follows: I charge first into the cupola a quantity of coarsely-ground dolomite sufficient to form a layer from two to ten inches deep, and then charge the fuel and pig-iron in proper proportions for melting, so that the iron, as melted, will pass through the dolomite, whereby it is purified from all estimable amounts of phosphorus.

When used in the puddling-furnace I apply the dolomite directly to the charge of pig-iron in quantities varying according to the amount of phosphorus in the iron from ten to fifty per cent. of the weight of the iron, so that in the process of "boiling" the iron is thoroughly brought into contact with the dolomite. I also "fettle" or "fix" the sides and bottom of the furnace with a mixture of iron ore and dolomite in about the proportions of four of ore to one of dolomite, the mass being speedily bound by the slag and forming a durable and excellent fix, and one, moreover, which acts chemically upon the molten charge to purify it.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The process, herein described, of eliminating phosphorus from iron, the same consisting in reducing the oxide of iron to the metallic state in presence of dolomite, substantially as described.

2. The process, herein described, of purifying metallic iron and eliminating phosphorus therefrom, the same consisting in treating the molten metal with dolomite, substantially as described.

J. B. KUNKEL.

Witnesses:

RICHD. D. WILLIAMS,  
GEORGE J. POPPLEIN.

Document 9

page from Dun &  
Bradstreet Records

*electrostatic copy  
courtesy Baker Library,  
Harvard University*

# Carleton Mountain Iron Co

Carleton Iron Co who are abundantly able. It must all its contracts & what its Capt is or may be will depend on statement to offer for publication further than it is able to meet all contracts - 5525

Carleton Iron Co

Frederick P

has Mar 11 89 to not prepared to give a short for publication at present. The Co is a close kept company composed of 100 of the defined

4/30-4

# J A Bothflower

which was not over 1 day out & good for small 16. Carries gas about 1000 lbs. was not over 15¢

Medaneston

has Mar 89 in his since July 50. Starts well. honest good. then & steady work. Doing from his pays local bills promptly. Issues with 15¢

1889



Document 10

Bill from Catocin  
Mt. Iron Co. to  
Mrs. [Wm.] McPherson.  
September 28, 1881

*electrostatic copy  
courtesy Mr. & Mrs.  
Clement Gardner*

Catotim Insurance Incl  
 Mrs McPherson (for Rectory Property)  
 do Catotim Mountain Iron Co  
 For 81 Locust Posts 10¢ 8.10  
 " 17 " " 15- 3.55  
 " " " " \$11.65-

1889 Oct 18 Rec Payment  
 Catotim Mtn Iron Co  
 By Thomas Grimes

(Thanks)



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The following authorities are among those who have served as informants in the Catoctin historical survey.

1. G. Eugene Anderson, President, Catoctin Furnace Historical Society, Thurmont, Maryland.
2. Dr. Roy Appleman, Historian, National Park Service, retired, Silver Spring, Maryland.
3. Sally Barach (Mrs. Maxwell Barach), local historian and dealer, Fairfield, Pennsylvania.
4. Tyler Bastian, State Archaeologist, Maryland Geological Survey, Johns Hopkins University, Baltimore, Maryland.
5. Mary Boccaccio, Archivist, McKeldin Library, University of Maryland, College Park, Maryland.
6. Tyler Bastian, State Archaeologist, Maryland Geological Survey, Johns Hopkins University, Baltimore, Maryland.
7. Mary Rae Cantwell (Mrs. Frank Cantwell), Director, Catoctin Furnace Historical Society, Sumner, Maryland.
8. Eric deJong, Curator, William Penn Museum, Harrisburg, Pennsylvania.
9. H. H. Douglas, Director, Pioneer America Society, Falls Church, Virginia.
10. Lawrence H. Eckert, Jr., Curator, Gettysburg Battlefield National Historical Park, Gettysburg, Pennsylvania.

11. Mrs. Clement Gardner, resident of "Auburn", Thurmont, Maryland.
12. John Gunsser, Curator, Asa Packer Mansion, Jim Thorpe, Pennsylvania.
13. William Grey, Curator, Catoctin Mountain National Park, Thurmont, Maryland.
14. Dr. George Hart, Director, Pennsylvania Railroad Museum, Strasburg, Pennsylvania.
15. Katherine Harvey (Mrs. O. L. Harvey), Historian, Silver Spring, Maryland.
16. Dr. E. Neal Hartley, Department of Humanities, Massachusetts Institute of Technology, Cambridge, Massachusetts.
17. Herbert H. Harwood, railroad historian, Baltimore, Maryland.
18. Earl Heydinger, Historian, Hopewell Village National Historical Site, Elverson, Pennsylvania.
19. W. Raymond Hicks, railroad historian, Westminster, Maryland.
20. Floyd Hoenstine, genealogist, Hollidaysburg, Pennsylvania.
21. Joanne Hohler, Archivist, Manuscript Division, State Historical Society of Wisconsin, Madison, Wisconsin.
22. H. Hanford Hopkins, historian/cartographer, Baltimore, Maryland.
23. Wilfred Husted, archaeologist, National Park Service, Middle Atlantic Regional Office, Philadelphia, Pennsylvania.
24. Stephen Israel, archaeologist (Catoctin, 1971), Upper Darby, Pennsylvania.

25. Murray Kauffman, President, Franklin County Heritage, Inc., Chambersburg, Pennsylvania.
26. Ross Kimmel, Historian, Maryland Park Department, Annapolis, Maryland.
27. Dr. Frederick Shriver Klein, Emeritus Professor of History, Franklin & Marshall College, Lancaster, Pennsylvania.
28. Dr. Ralph Levering, Professor of History, Western Maryland College, Westminster, Maryland.
29. Dr. Lothar Madeheim, Assistant Archivist, Moravian Archives, Bethlehem, Pennsylvania.
30. Ernest McGill, descendant of McPherson, West Point, Georgia.
31. Frank Mentzer, National Park Service, Southwest Regional Office, Sante Fe, New Mexico.
32. William Meuse, Historian, National Park Service Center, Harpers Ferry, West Virginia.
33. Dr. Thornton W. Mitchell, Archivist, North Carolina Department of Archives and History, Raleigh, North Carolina.
34. Monika Murphy, Assistant to Map Curator, American Geographical Society, New York, New York.
35. Dr. Charles Porter III, Historian, National Park Service retired, (Catocin, 1936), Richmond, Virginia.
36. Joseph Prentice, Industrial Archaeologist, National Park Service retired, Ridge, Maryland.



37. William Renner, resident of Furnace area, Thurmont, Maryland.
38. Charles W. Ross III, descendant of Kunkle, McPherson and Ross, Frederick, Maryland.
39. Dr. Homer Rosenberger, Historian, Waynesboro, Pennsylvania.
40. Paul Rugen, Keeper of Mss., New York Public Library, New York, New York.
41. Jody Sacco, B&O Archives, Mt. Clare Station, Baltimore, Maryland.
42. Charles Sandy, Superintendent, Cunningham Falls State Park, Thurmont, Maryland.
43. Dr. Calvin Schildknecht, historian (of Reissner), Gettysburg, Pennsylvania.
44. Mrs. Earl Shankle, resident of Furnace area, Thurmont, Maryland.
45. Curtis Shuff, resident of Furnace area, Thurmont, Maryland.
46. William T. Shuler, Director, Page County Heritage Association, Shenandoah, Virginia.
47. Norman Souder, Architect, National Park Service, retired, New Paris, Pennsylvania 15553.
48. William Sweeney, resident of Furnace area, Thurmont, Maryland.
49. David Thompson, furnace historian and bookseller, Carlisle, Pennsylvania.
50. Robert Vogel, Chairman, Division of Science & Technology, Smithsonian Institution, District of Columbia.

51. Dr. Joseph Frazier Wall, Professor of History, Grinnell College, Grinnell, Iowa.
52. Dr. Theodore Whitfield, Emeritus Professor of History, Western Maryland College, Westminster, Maryland.

Libraries and Other Depositories Contacted as of December 10, 1975.

1. Adams County (Pa.) Historical Society, Gettysburg, Pennsylvania.
2. American Engineering Library, New York, New York.
3. American Philosophical Society, Philadelphia, Pennsylvania.
4. Archives of B&O Railroad, Baltimore, Maryland.
5. C. Burr Artz Library, Frederick, Maryland.
6. Bedford County Courthouse - (Recorder/Deeds - Registrar/Wills),  
Bedford, Pennsylvania.
7. Blair County (Pa.) Historical Society, Altoona, Pennsylvania.
8. Carroll County Historical Society, Westminster, Maryland.
9. Chester County (Pa.) Historical Society, West Chester, Pennsylvania.
10. Catholic University Library, Washington, D. C.
11. Columbia Historical Society, Washington, D. C.
12. Cumberland County (Pa.) Historical Society, Carlisle, Pennsylvania.
13. Historical Society of Delaware, Wilmington, Delaware.
14. Division of Archives and History - Department of Cultural Resources,

Raleigh, North Carolina.

16. Duke University, William R. Perkins Library, Rare Books Division, Durham, North Carolina.
17. Enoch Pratt Free Library, Maryland Room, Baltimore, Maryland.
18. Eleutherian Mills Historical Library, Greenville, Delaware.
19. Franklin Institute Library, Philadelphia, Pennsylvania.
20. Frederick County Courthouse - (Recorder/Deeds - Registrar/Wills), Frederick, Maryland.
21. Frederick County (Md.) Historical Society, Frederick, Maryland.
22. Hall of Records Commission, Archives and History, Annapolis, Maryland.
23. Harvard Business School, Baker Library, Boston Massachusetts.
24. Historical Society of Pennsylvania, Mss. Division, Philadelphia, Pennsylvania.
25. Historical Society of Western Pennsylvania, Pittsburgh, Pennsylvania.
26. The Johns Hopkins University, Eisenhower Library, (Storage), Baltimore, Maryland.
27. Lancaster County (Pa.) Historical Society, Lancaster, Pennsylvania.
28. Lebanon County (Pa.) Historical Society, Lebanon, Pennsylvania.
29. Lebanon Valley College Library, Annville, Pennsylvania.



30. Lehigh County (Pa.) Historical Society, Allentown, Pennsylvania.
31. Lehigh University Library, Bethlehem, Pennsylvania.
32. Library of Congress, Main Reading Room, Washington, D. C.
33. Library of Congress, Mss. Division, Washington, D. C.
34. Library of Congress, Prints Division, Washington, D. C.
35. Library of Congress, Serials Division, Washington, D. C.
36. Maryland Diocesan Archives, Maryland Historical Society, Baltimore, Maryland.
37. Maryland Historical Society, Baltimore, Maryland.
38. Maryland Historical Society, Mss. Division, Baltimore, Maryland.
39. Maryland Historical Trust, Annapolis, Maryland.
40. Maryland State Library, Annapolis, Maryland.
41. McKeldin Library, Mss. Division, Maryland Room, University of Maryland, College Park, Maryland.
42. Moravian Archives, Bethlehem, Pennsylvania.
43. Museum of Early Southern Decorative Arts, Winston-Salem, North Carolina.
44. National Archives, American Revolution Research Center, (Mr. Perry), Washington, D. C.

45. National Archives, General Archives Division, (Ms. Janet Hargett), Suitland, Maryland..
46. National Archives, Industrial-Social Division (Mr. Carmen Deledone), Washington, D. C.
47. National Archives, Industrial-Social Division, (Mr. James Paulaskis), Washington, D. C.
48. National Archives, Interior Division, (Mr. Robert Kuasnicki), Washington, D. C.
49. National Archives, Navy and Old Army Branch (Dr. Gibson Smith), Washington, D. C.
50. National Archives, Military Division, (Mrs. Elaine Everly), Washington, D. C.
51. New Jersey State Library, Trenton, New Jersey.
52. New York Public Library, Mss. Archives Division, New York, New York.
53. Newcomen Society in North America, Downingtown, Pennsylvania.
54. Northampton County (Pa.) Historical Society, Easton, Pennsylvania.
55. Old Salem, Inc., Winston-Salem, North Carolina
56. Page County (Va.) Heritage Association, Shenandoah, Virginia.
57. Peabody Library, Baltimore, Maryland.
58. Pennsylvania Archives, Harrisburg, Pennsylvania.

59. Pennsylvania Historical Society, University Park, Pennsylvania.
60. Ridgeway Library, Library Company of Philadelphia, Philadelphia, Pennsylvania.
61. Thurmont Public Library, Thurmont, Maryland.
62. University of Pennsylvania, Annenberg Library, Philadelphia, Pennsylvania.
63. University of Pennsylvania, Technology Library, Philadelphia, Pennsylvania
64. University of Pennsylvania, VanPelt Library, Philadelphia, Pennsylvania.
65. Washington County (Md.) Historical Society, Hagerstown, Maryland.
66. West Chester State College Library, West Chester, Pennsylvania.
67. Henry Francis DuPont Winterthur Museum, Winterthur, Delaware.
68. York County (Pa.) Historical Society, York, Pennsylvania.

The following symbols have been used in the card file to indicate the location of manuscript collections, newspaper files, etc., which have been used.

BLH	- Baker Library, Harvard
CCHS	- Chester County Historical Society
Eleuth	- Eleutherian Mills Historical Library
EPL	- Enoch Pratt Free Library
EPLB	- Peabody branch, Enoch Pratt Free Library
HR	- Hall of Records
HSD	- Historical Society of Delaware
HSP	- Historical Society of Pennsylvania
HSWP	- Historical Society of Western Pennsylvania
LC	- Library of Congress
LHS	- Lancaster County Historical Society
MHS	- Maryland Historical Society
MSL	- Maryland State Library
NARS	- National Archives Records Service
PRD	- Public Records Division, Pennsylvania Historical & Museum Commission
PSL	- State Library of Pennsylvania
RBL	- Library Company of Philadelphia
WCSC	- West Chester State College
WCHS	- Washington County Historical Society
YCHS	- York County Historical Society