## "Prosser's Patent" Agate Button Images

MANUFACTURE OF PORCELAIN BUTTONS."

We published in the Merchants' Magazine for November, 1850, vol. xxiii., page 578, a brief extract from the Staffordshire Advertiser, touching the manufacture of " Porcelain Buttons" which our correspondent, Mr. Thomas Prosser, pronounces to be "altogether erroneous." Mr. Richard Prosser, a brother of the writer, is the inventor of the machinery for the manufacture of certain articles of Porcelain, a circumstance that would seem to give authority to the statements made in the subjoined communi-

FREEMAN HUNT, Esq., Editor of the Merchants' Magazine, New York:

FREEMAN HUNT, Eag., Editor of the Merchanti Magazine, New York:

Sra:—In this November number of your able Magazine, there is an article copied from the Staffordshire Advertiser, on the manufacture of porcelain buttons, which is altogether erroneous, and it may answer a good purpose to have corrected, inasmuch as there is a lementable deficiency of knowledge on the subject of the economy of manufacturing manipulation, both here and in Staffordshire; and few are aware of the immense sums which have been expended foolishly in consequence thereof, in this one branch of a very simple manufacture. It is almost an universal error among those not intimately acquainted with such matters, to suppose, that it must necessarily be economical to make a large number of small articles at a blow; or to perform a great number of operations in one machine, and at one time: nothing can be more fallacious, as the article under consideration has furnished ample proof to those who have tried it on both sides of the Atlantic. Porcelain buttons are by no means new as an article of merchandise, for they were known as expensive curiosities more than eighty years ago; and it is more than sixty-five years since a patent was taken out for making

Journal of Mining and Manufactures.

them. Notwithstanding this, however, porcelain buttons were not known as a common and extensive article of manufacture until my invention of what is commonly known as the "dry process," was introduced.

This invention originated with me in the year 1832, and the first button that was ever made by that process was made by me in 1837.

No buttons were made by the same process until two years after that time. In the meantime, I had arrived in this country, and had disclosed the process in 1838, and in 1840 applied for a patent.

meantime, I had arrived in this country, and had disclosed the process in 1935, and in 1840 applied for a patent.

From that year dates a most extensive branch of industry in England, and afterwards in France; nor is it in the slightest degree interfered with by the supposed manufacture in the old way (for a very old may it really is) referred to in the article

wards in France; nor is it in the singhtest degree interfered with by the supposed manufacture in the old way (for a very old seq it really is) referred to in the article before mentioned.

I am thus particular in stating my own claims in this matter, because I have long since ceased to enjoy any emolument for the invention; and all that is left me is the honor of having been useful in a small matter. It is, however, a source of regret that the patent law of this (and I greatly fear of most other countries too) should afford so little protection to the poor inventor, as to deserve the same severe epithet of being "a fraud, a delusion, and a snare," as was applied by an Irish patriot to an English law. Originally my invention was intended to apply to cups, saucers, knobs, and other articles, in short, to all that can, and to many which cannot be made by the ordinary method used in the Potteries.

Bricks and tiles, tesserse and jambs for fire places, keys for pianafortes, and, in short, all kinds of flat articles have been, and still continue to be, made in almost endless variety; and many floors have been laid in the houses and chappels of the nobles of England, and on the continent of Europe, and some of churches here as well as Mosaic tables of the most gorgeous patterns. But no one, except myself has yet been able to make articles otherwise than those with flat and parallel surface. After the indisputable evidence which was given on a trial for an infringement of my patent in United States Circuit Court, New York, April 21st, 1847, and the subsequent granting of a new trial on grounds entirely distinct from any question of validity of the patent, and without any reason whatever being assigned on any point of law or precedent, I felt that there was very little security under our present patent laws; and for the present, at least, have given up the prosecution of an undertaking of the greatest importance to this country, possessing, as it does, the greatest varieties of materials for the plastic art of any in t

The number which one woman can make of these buttons is almost incredible. Twenty-five buttons are often made in one minute, but the usual rate is from 12 to 18 per minute, the week round. The price paid for making is one cent per gross, at which rate the earnings of one woman vary from \$3 to \$4\frac{1}{2}} per week. Twenty thousand gross of buttons have been made per week; but at present none are made in the Potteries of Staffordshire, and only a few thousand gross, of an inferior character, at Worcester. The whole of the machinery was invented by my brother, Mr. Richard Prosser; and that portion of it for making floor tiles and tesserse is still in full operation. The Queen is a great patron of this manufacture, and has ordered more than ten thousand dollars worth for Osborne House alone.

I am. most respectfully.

I am, most respectfully,

THOMAS PROSSER.

Thomas Prosser's 1850 letter to the New York Merchants' Magazine

Version 06-04-2016

prossertheengineer.co.uk

1. Sol. ga this & J. Dul. to Lawyer City of New-Xork, as. BE IT REMEMBERED. Thomas Proper THAT late of the UNITED KINGDOM OF GREAT BRITAIN AND IRELAND, appeared in the Marine Court of the Bity of Rew-Bork, held in the City Hall of the said City, on the twenty first doy of here in the year of our Lord one thousand eight hundred and thirty - Light - the said Court being a Court of Record, having Common Law Jurisdiction, and a Clerk and Seal, and declared On Galk in open Court that it was bona fide his intention to become a Citizen of the Enited States, and to renounce, forever, all allegiance and fidelity to any foreign Prince, Potentate, State or Sovereignty whatsoever, and particularly to the Queen of the United Kingdom of Great Britain and Ireland. In Bestimony Bhereof, the SEAL of the said MARINE COURT of the City of New-York is hereunto affixed, this of Him in the year of our Lord one thousand eight hundred and thirty. Deglat and of our Independence the Sixty. Le ond Hom Karberie) derk.

21st June 1838 Thomas's Affidavit of his intention to adopt U.S citizenship Courtesy of Jody Behrbohm

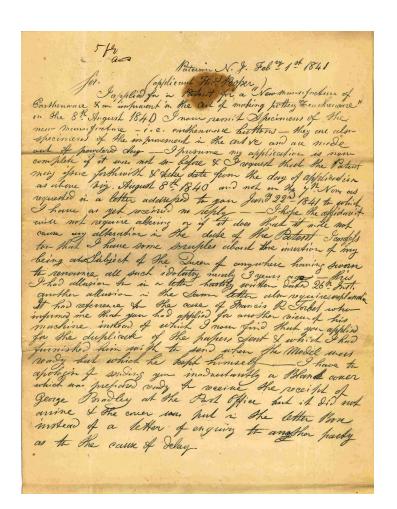
To The Commissioner of Patents: The Petition of Thomas Proper of the Township of Petersony in the County of Passaic, and State of New Jersey, respectfully represents; That your Petitioner has invented various new and weful Manufactures of Cartherwan, and has also discovered a new and useful imparament in the Ut of making various other articles of Pottery a Carthonware, neither shick has not of which Inventions me Discovery . Some heractifier bear bonown or used; The advantages of which he is dissous of socuring to himself and his legal representatives; he theu few prays that letters Patent may be ifered, granting with your Politioner, his his siers, administrators or apigns , the full & exclusive right of making , constructing , using and vending to others to be used his said New Manufacture of Earthonware, and also the full and exclusive right of making use of, and vending to other to make use of, his said New Improvement in the art of making Pottery a Carthonwere, your Politioner having paid Thinky Collects who the Freezeway of the fle United Action by depicting the same with the believe fortune for the Same of Convergence at from the destroy of Convergence at fact the destroy of Convergence at the same of the convergence at the Paterson August 8 1840. Be it Known, that I. Thomas Profeer of the Township of Paterson, in the Country of Papaie, an State of New Jersey, have invested various new and auful Manufestius of Eartherware and have also discovered a n and useful Improvement in the art of making various . Sher certicles of Pottag a Carthenware, and that the following is a full and exact description thereof: My Now Monnfacture of Cuthonware ansists of Britans and we composed either wholly a partly of Earthenware which are now assully make of Metals, Pearl, Tong, Bone, Horn,

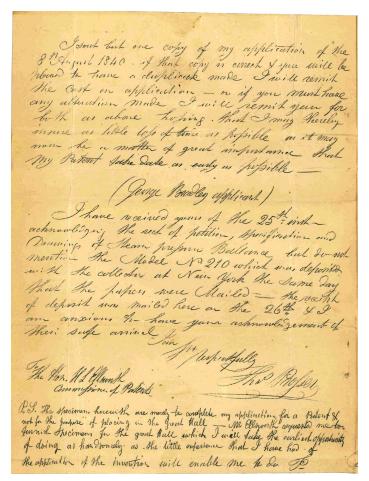
Wood, Paper a other materials; Hops for Make and Throstle Spiralles to revolve whom, which we now usually of glass and steps and collars for the same now usually of Bruis. also Staps of every hind for Shafting , Gudgeons , Journals , and all hinds of Machinery to revolve upon , Rings for exentices and packings for Stram Erigine & Pante pistens new generally of Brafs. Types either for Cesting a Rinting from ; Toothed wheels for Clocks und other Machines; Beblins & Spools wholly a partly of Carthenware for Cotton, Black, Silk Wool and other Machiney the whole if which are now usually of Metal or Wood; and adificial Hones & Whatshines. My Improvement in the art of making articles of Potting a Carthenware, and aut of which juincipally arises the value of the new Manufactures above enumerated, consists, in volucing any of the Clay earths Legether with such other inquedients as may be found most applicable to the purpose for which they we intended, to a finely divided, granular, or where requisite to a pundered thate, by any Michanical or Chemical means, and while in Much companing dry that facility companing it into metallic or other moulds or dies often which it may be burnt in the common manner No new meetarials or ingrectionts are proposed to be used as those which are now commonly used in the wet or plastic state to form Paclain and other hunds of Pottery are considered sufficient applied in various proportions The orderandayes proposed by this method are that The good emifermity produced throughout the Mederial, and the immense propose to which it is subjected,

if it does not present contraction allegether, will at least insure an uniform one, own at a high temperature, purducing qual density and hardness, and shorely rendering the new Monnfacture muly organed to Agate for all there purposes to which agate is applicable, but for the immone expense that attends its first furnation and at hip cost than the Common Brafs Heps now und which wear out rapidly white The new Manufacture will searcely wear away at all. The Shee advantages we the economy and beauty of the Manufacture that its capability of receiving a Sharp impression & beautifull sturgers and of retaining the same after being hurit; other advantages an too obvious to need mentioning The other articles of Pottery or Earthenware to which the improvement is applicable consists of Chimny , Hower & Sher histicaltank Pots, Jovels Paus, Wishes, Mestis, Cops and Success, Perter and Maker's, Guilles Leggars and Costing Posts and all ther writiches of a like kind which will admit of the improvement aforesaid being adopted. I claim as my Maintion a even Manufacture of Carthonware not previously known consisting of Buttons, Bellinsan Speaks either wholly a party of Carthenware, Steps and Collars for Make and Thurthe Spindles also steps for all other kinds of Machinery to mole whom , Hings for excentices and puckings ga Steam Engine and Rump Pistens, Types for Cesting a Printing from , Too Shed Wheels and Wificial Hones and Matterns.

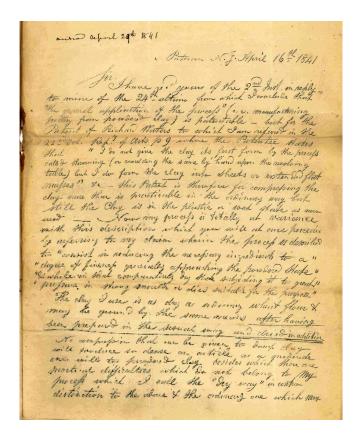
Talk claim on my directly and not previously known an Impurement in the Ush of making the vocaious kinds of Pothery onumental benin but mue particularly as applicable to making there set firth as Now Morn forburs and which consists in radicing the necessary in greatients to a degree of finency generally approaching the powdered Hate and while in that companitively dry that subjecting it to gual perfere in Along moulds or dies suitable for the purpose. Mehrefs my hand this Viday Sugar 1840. Is the passes of Charles Survey V. Shuman James Showard City of New York, \$3. On this eight day of August in the your One Thousand eight hundred and forty, before the submitten, Closek of the Maine Couch of the City of New York, purmally appround the within named Thomas Proper, and made whom Buth according to have, that he willy believes himself to be the true and riginal muritor of the New Monufacture of Carthennair and alm of the Imparement in the aut of Making caticles of Potting or Earthonware, mentioned and deniled in the Therefication hereto unresent; and that the same hath not, to the best of his knowledge a belief been known a used in this, a is any foreign Country; and that he is an Ulian and back resided one year in the United Shetes; and hath given legal native of his intention to become a Citizen Macof. Swom before me wome +1840 Lombraduring Owndern cuts)

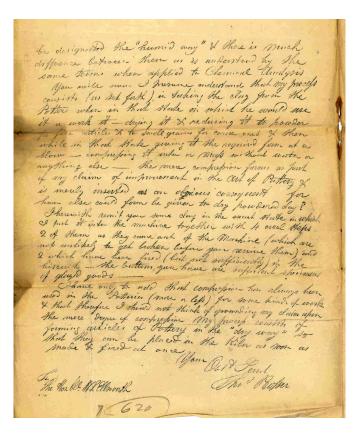
8th August 1840 Thomas's first dust-pressed patent application U.S. National Archives





Thomas's letter dated 1st February 1841 to U.S. Patent Office





Thomas's letter dated 16th April 1841 to U.S. Patent Office All images: U.S. National Archives

To all whom it may concern: Be it known that I, Thomas Proper, of the town of Paterson, in the country of Passaic, and state of New Jersey, Civil Engineer and architect, have invented a new and useful improvement in the manufacture of Brittons, and I do herely declare that the following is a full and exact description therety: My improvement in the mounfacture of Buttons consists, Sintly, in making them of materials not heretofue used for, a applied to that purpose, to wit, such day earths or other earthy materials and metallic oxides, as are now commonly used by Potters in the manufacture of domestic earthenware: and secondly, in making them in metallie moulds; in which the motherials are comprehe a with ansiderable force, by means of a common fly sorewhrefs or any other suitable mechanical continance, ofter being reduced to a fine howder. I The profone given must be sufficient to cause the powdered day to cohere and retain the from of the buttern which is impreped whom it in the mould, often which it is to be fired and glaged in the Potter's hile in the usual manner, and also painted or printed simelar to a dinary porcelair if required; such buttons on have holes in them for the purpose of sewing them on the clothing are then complete, but there requiring thomks of metal, have then stuck into a recess made in the button for that purpose, by mean of shell lack a Then coment; or they are attached to a shell which covers the whole of the back of the batter and turns a little over the front - the first of the butter only appearing set in a metallic frame or shell & all the back of which is the shoul. What I Claim as my Invention, and desire to secure by letters to be mountained consisting the manufacture, of Button. A of comprehed clay or other early motherials as set forth. Witness My hand Shi: 30 th Day of June 1841 In the presence of Thomas Profser

30th June 1841 Thomas's much reduced final U.S. patent application U.S National Archives

## UNITED STATES PATENT OFFICE.

THOMAS PROSSER, OF PATERSON, NEW JERSEY.

## IMPROVEMENT IN THE MANUFACTURE OF BUTTONS.

Specification forming part of Letters Patent No. 2,199, dated July 29, 1841; antedated January 29, 1841.

To all whom it may concern:

Be it known that I, THOMAS PROSSER, of the town of Paterson, in the county of Passaic and State of New Jersey, civil engineer and architect, have invented a new and useful Improvement in the Manufacture of Buttons; and I do hereby declare that the following is a full

and exact description thereof.

My improvement in the manufacture of buttons consists, first, in making them of materials not heretofore used for or applied to that purpose—to wit, such clay-earths or other earthy materials and metallic oxides as are now commonly used by potters in the manufacture of domestic earthenware; and, secondly, in making them in metallic molds, in which the materials are compressed with considerable force by means of a common fly screw-press, or any other suitable mechanical contrivance, after being reduced to a fine powder.

after being reduced to a fine powder.

The pressure given must be sufficient to cause the powdered clay to cohere and retain the form of the button which is impressed upon it in the mold, after which it is to be fired and

glazed in the potter's kiln in the usual manner, and also painted or printed similar to ordinary porcelain, if required. Such buttons as have holes in them for the purpose of sewing them on the clothing are then complete; but those requiring shanks of metal have them stuck into a recess made in the button for that purpose by means of shellac or other cement; or they are attached to a shell which covers the whole of the back of the button and turns a little over the front, the front of the button only appearing set in a metallic frame or shell, and at the back of which is the shank.

What I claim as my invention, and desire to

secure by Letters Patent, is-

The manufacture above mentioned, consisting of buttons formed of compressed clay or other earthy materials, as set forth.

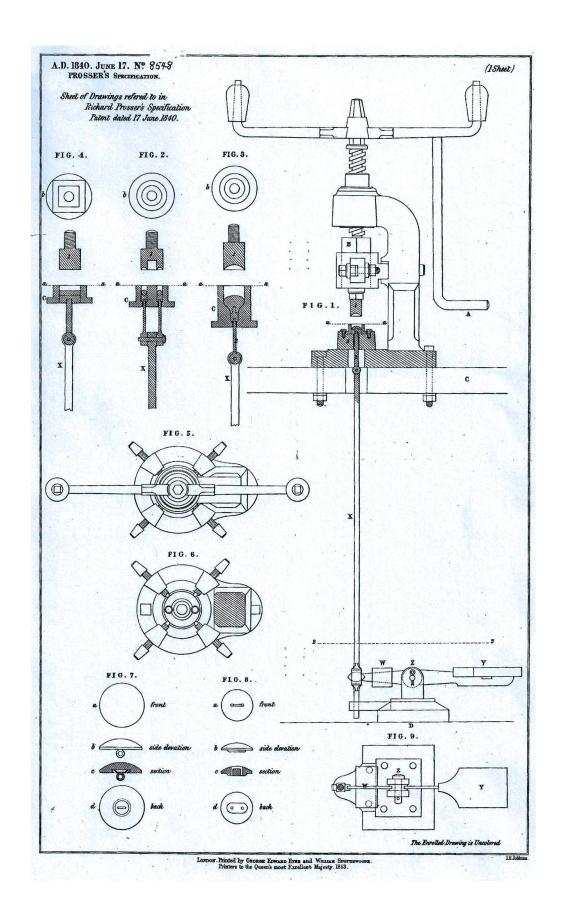
Witness my hand this 30th day of June, 1841.

THOMAS PROSSER.

Witnesses:

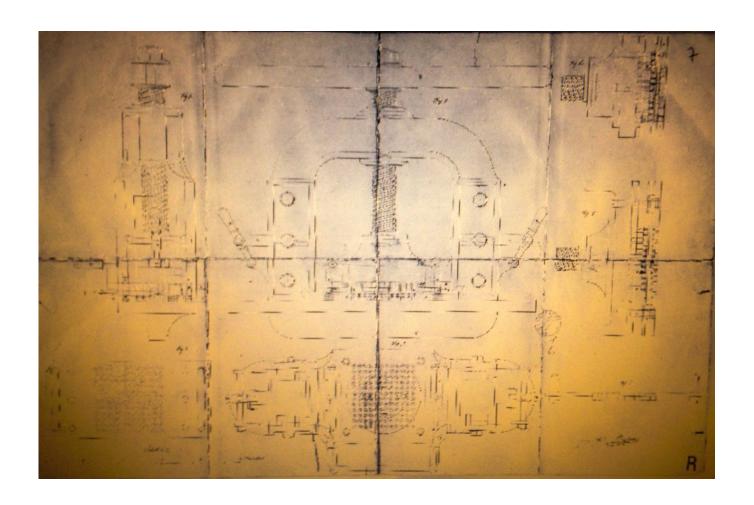
GEORGE BRADLEY, JAMES BRADLEY.

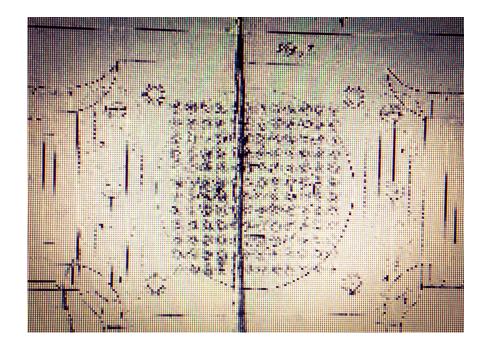
Thomas's Patent antedated to 29th January 1841 U.S National Archives



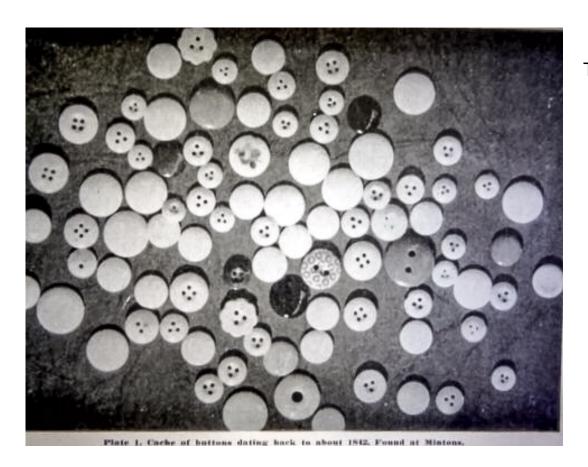
17th December 1840: the drawing in the enrolled specification of Richard's patent dated 17th June 1840 (for the full specification see the PDF in The Patents link on the Menu bar).

UK Intellectual Property Office



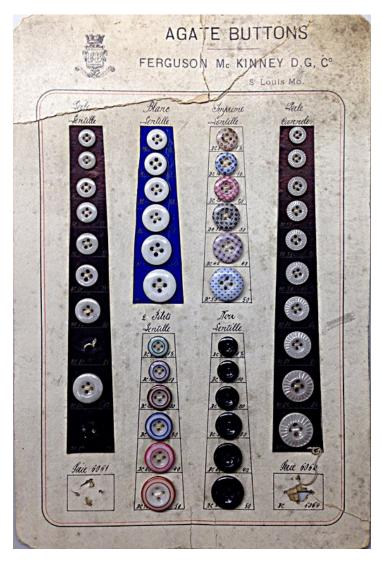


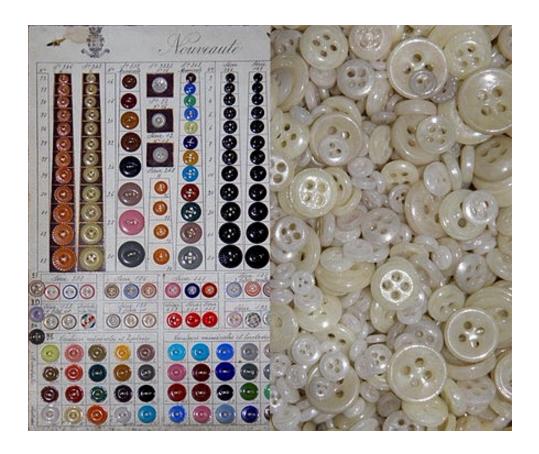
Drawing from
Bapterosses's Patent
No. 1BB341 dated 4th
November 1844 with a
close up left of the 144
button die.
INPI French website



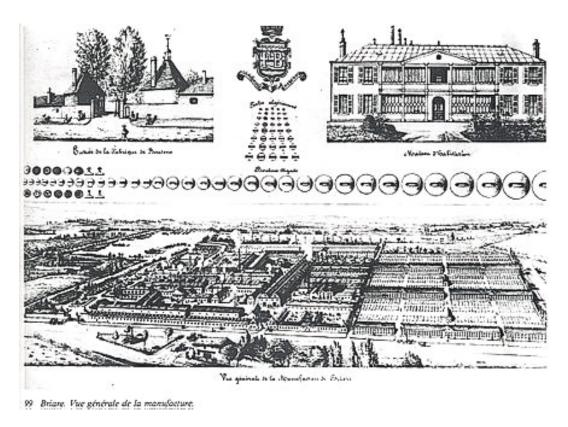
The only known image of Minton's (Richard) "Prosser's Patent Agate Buttons" NBS National Button Bulletin dated March 1952

Early sample card of Bapterosses's buttons Courtesy of Judy Behrbaum





Bapterosses buttons c1850 - Wikipedia



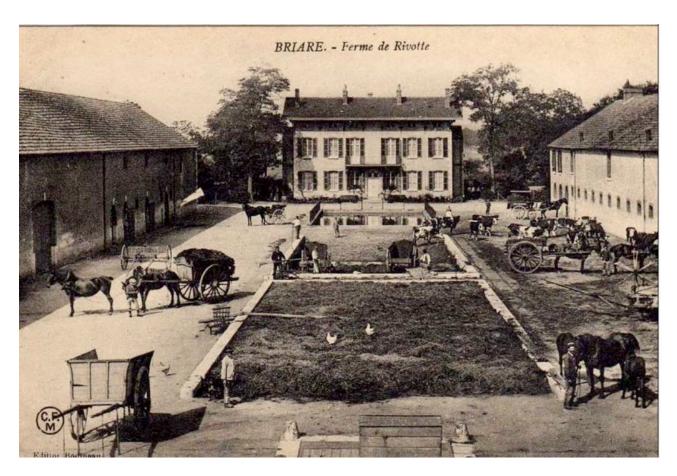
Bapterosses's factory Briare c1875 - Wikipedia



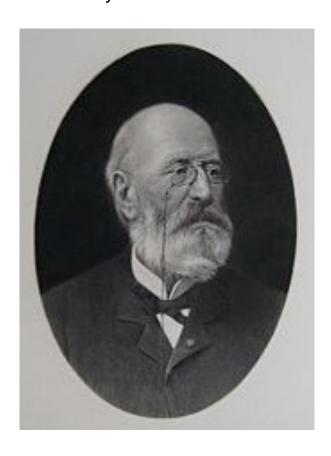
Bapterosses's factory Briare with workers' housing in foreground



Briare canal with Bapterosses's factory in background



Bapterosses's farm for the dairy herd for the milk for the button manufactory



Jean-Felix Bapterosses (1813 - 1885 ) - photograph presumably taken in his last decade; 10,000 people were said to have attended his funeral.