L'TYPES" AND "GRAPHS".

VARIOUS INGENIOUS DE VICES FOR REPRODUCING PICTURES.

The Leading Methods of What Has Now Become a Very Important Industry-The Secret of Lithograph and the Gelatine Process-Photo-Gravure.

The reproduction of pictures by mechanical means has, within the last quarter of a entury, become a very important industry, Lithegraphy, long its most considerable branch, has in recent years been effectively supplemented by photography, and other processes, which do away with the lithophic stone have developed with amazing repidity. None of these have equalled the excellence of photographs printed from megatives, but some of them have produced results that none but the expert can distinguish from direct photographs. They have greatly cheapened the cost of reproducing sictures, and have proved an immense help to education, amusement, art and business. In all the "photo" and "type" processes a negative is the first thing to be obtained, and in most of them this negative differs little from that used in ordinary photogra-By means of this negative the picture phy. By means of this negative delatine from is fixed on the stone, metal or gelatine from which the impressions are to be printed in a

THE SECRET OF LITHOGRAPHY. Let us take first the stone or lithographic cess, as that was the first to be developed. The secret of lithography, you know, lies in the aversion of grease for water. The greasy lines of the drawing keep the water in the sponge passed over the stone from being absorbed by any but the uncovered parts of the stone. Then the parts thus moistened repel the ink of the roller passed over it, while the lines of the drawing are The paper placed on the stone is pressed down and thus printed. In photo-lithography the photographic negative does the work of the artist who draws on the lithographic stone. First from the negative is printed a picture on a sheet of paper coated with a mixture of albumen, gelatine, This is transferred to the lithographic stone by means of ink and pressure. as example of photo-lithography see The New York Graphic pictures. Much more delicate work, however, can be produced by

this process. As the photo-lithography must be printed in a special press and the process is slow and expensive, for much work it is desirable to have "cuts" that can be used in the ordinary printing press. Here photo-engraving come into play. As now applied in this city, its results take three forms, which may be breadly designated as zine etchings, stereotypes and electrotypes. If a zinc etching is to be made from a photograph, the artist goes over the photograph with pen and a peculiar ink, known as "transfer ink," and makes a fine drawing of it. When this is pressed on the polished zinc plate the ink ines are transferred thereto. The ink resists the acid that is then poured over the plate, while the acid eats in where there is no ink. The plate then being fastened to a wooden bed is ready to be used in the form.

What have been referred to as stereotypes are made by the "swelled gelatine" process. After the picture has been printed from the negative upon the gelatine, it is placed in water, and the parts not acted upon by light, are swollen to a slight degree: from this a plaster mould is taken, from which a plate is subsequently cast. As the depth obtained by this method is but slight, it has to be submitted to the engraver's skill, to deepen the lights, the result, when finished, being a stereotype plate of soft type-metal, produced partly by photography and partly by the engraver's skill.

In the electrotype process the picture is printed on gelatine prepared in a little diferent way. On removing the gelatine from the negative, the picture is plainly seen, every dot and line on the negative saving been duplicated upon the gelatine by the action of light, which renders the parts so acted upon insoluble, while the portions of gelatine protected by the opacity of the negative from the action of light remain perfectly soluble, and are washed away with warm water, leaving the insoluble portions raised and in relief. After the gelatine becomes dry it is fastened to a metal plate by means of shellac, and then

electrotyped. These processes are rapid and comparalively cheap, but, as the drawings must be all in lines or dots, they cannot have the half tones found in a photograph and are not useful in the most artistic work, but for newspaper cuts, many magazines and book illustrations, maps, manuscript, drawings, music, diplomas and the like they are both practical and economical
PHOTO-GRAVURE—HELIOTYPES.

A finer class of photo-engraving is to be seen in the photo-gravure, made by a process that may be called copper-plate printing. It is used extensively and with exquisite effect in France, but this has been put into practice very little in America.

Almost all the fine work in the mechani-

cal reproduction of pictures in this country has been accomplished by the use of gela-tine. Hundreds of the works of the old masters have been reproduced here, and beck illustration has been immensely helped, not to speak of many minor ways in which good work has been done.

Most prints from gelatine are either heliotypes, albertypes, or autoglyphs: slight variations in methods give pictures known by other names, such as photoindotint and artotype. In the heliotype process a "skin" or sheet of gelatine is put under the negative in a printing frame. The symbol 200 tive in a printing frame. The sunlight passing through the light portions of the egative (the darks of the original) hardens the gelatine beneath, making it more or less impervious to water. Then this gelatine "skin" is put on a zinc base, much as a boy pute his leather "sucker" on a stone. The pute his leather sucker on a stone. The plate of zinc with a gelatine surface thus formed is put in the heliotype press, and the printing goes on. Of this printing the secret is the aversion of greasy ink for moistened gelatine. Upon sponging the plate, the parts of the gelatine soak in water just in proportion to their hardness. Then the greasy ink from the roller adheres to the parts of the gelatine just in proporion to their moisture.

In both the sibartype and the autoglyph rocess the gelatine film is thinner, and nested of being without a base, when 217 winted under the negative, is attached to a 154 se from the very start of the process. In the albertype process the gelatine film is flowed over a glass plate; in the autoglyph flowed over a glass plate; in the autoglyph process is is flowed over a polished copper plate. The pictures produced by these processes differ little in general character, being soft and delicate, while those produced by the heliotype process are brilliant and strong. The greatest expense in all three processes is caused by the lack of darability in the gelatine plate. Only a few score of pictures can be printed from a single plate. Then, too, by far the greater part of the printing must be done by hand. Power presses can be used for some grades of work, but have not yet been perfected enough to give the most satisfactory results.—Boston Globe.

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MONDAY, JUNE 14, A. D., 1886, charles smith. BENNER TWP.

Warrantee. Unknown Ann Deal, part....... BURNSIDE TWP.

433 163 Robert Brady..... 433 163 Wm P Brady 433 163 John Brady..... 433 163 Alex Bell 163 John Dewart ..

433 153 Chas Hall Nathaniel Levy

CURTIN TWP.

Jesse Brooks... D Carscadden,,,,,,,,,,,,do 120 Peter Dehass, 34 of Esther Eddy. Cadwalader Even..... Wm Elliot..... Ed Hallowell

Jas Irwin

Rebecca Kelso

Jos Kelso

J B Long

J B Long
Cable Lowns.....
Isaac Longstreth....
Cable Lowns.....
Isaac Longstreth
John S Mason...
Philip Meyer...
Bimon Meyer...
48 Michael Meyer...
Valentine Meyer...
James Miller. Valentine Mey James Miller... John Palmer.... Joseph Tavlor... Jacob Waln.... Casper Wister...

433 163 Jas White FERGUSON TWP. A Barton Sloat, ow'r 12 30 200

Wm Hep Barnard Hubby 63 Wm Hahn Jno M'Clintock, ow'r

Henry Andis.... Thomas Barr..... Jas Barr.....

40 Gillilan, H & S Sny-

108 John Hartman
60 Mary Links
99 Geo Kreamer
Wm Parker
6 Albright Swineford
170 Stover 4 Wolf 123 Catharine Snyder ... Gatharine Snyder...

do do ...

Wm Tidd...
Simon Grates...

J G Meyer...
George Fowler...
Mathias Workman...
James Black
Peter Black...
H B Crowley...
Adam Epler...

Adam Epler. Wm Tidd

Robt McElroth
Samuel Metzgar
John Matz
Daniel Rhodes
David Scribner
George Seidel
Peter Seidel
Peter Seidel
Philip Seidel
E H Scribner
Geo Snyder
Joseph Thompson
Henry Spiker and C
Weiser
Award
Catherine Snyder

HALF MOON TWP.

Josiah Lumburu..... Isaac Sherer..... Jno T Fowler, own'r HARRIS TWP.

HOWARD TWP. HOWARD TWP,

04 Samuel Brown...
Sarah Bobman...
Joseph Green...
Jos Graysburg...
Martha Godfrey...
do do ...
Jas D Harris...
J J Lingle...
Jon Willis...
White & Nestleror
HUSTON TWP.

LIBERTY TWP.

of
158 Mary M Wharton
158 Francis West
154 Benj West
Prancis West
Richard Wain
153 Kearney Wharton
Dayld Williams RUSH TWP. 153 John Allison... Jas Allison.... Allison, Andrew and

Peter Lytle. Mathew Leech.... of 200 Christ Nestlerode...

Hannah Bady.... Jane Brady.... John Brady....

Wm P Brady

Henry Antis. Geo Calhorn.

Geo Calhorn.... Jas Carothers... Wm Cooper..... John Dorsey...

Wm. Parker..... Richard Parker.

Wm Steadman ...

Abraham Scott ...

Wm David lohn Wolf ...

Wm Grant Thos Boyde ...

Wm Herman..... Jas Cummings....

Win Housel
Samuel Tripp....
Hugh Boyde....
Peter Tripp.
Thos Miles...
Jacob Princeton.
Stophel Seidell...
John Seigfreid...
Janiel Seigfreid...
Jacob Seigfreid...
Jacob Seigfreid...

Wm Cook...... Robt Taggart..

134 Wm Miles

PENN TWP.

POTTER TWP.

111 Alex Cameron

David Cougal.... Wm Dewart.... Jasper Ewing... H B Fullmer....

Jas Forks..... Edward Garigus... Wm Garigus..... Christ Getty......

Geo McClellan...... Wm Collier, owner... Jac Roop...... Wm Sawyer....

J Gorden Est., own'r

SNOW SHOE TWP.

153 Geo Campbell. 153 Paul Cox......

4 of 33 113 J P Norris.... 4 of % of 23 163 J P Norris.... 5c 153 Wm Parker... 16 Jere Parker...

158 Mary M Wharton

Thos Martin ...

Samuel Young.

83 .

Jere Parker ..

Shaw & Lingle. MARION TWP. Adam Decker... Thos Lewis..... Thos Lucas...... Jno Zeigler, d Simon Yarger.... of 199 Paul Zantzinger. MILES TWP.

Thos Fitzsimmons... Ed French, owner.... 153 David Hair

163 Wm G Lattimore Casper Lawrence...

163 Ed Mayston...
Wm Micherson...
153 John Miller...
163 Jacob do ...
163 Martha McConnel...
154 Geo Mead

153 Casper Schafner... 153 And Shenk.... 153 Michael Shenk.... 483 153 Christian Shank... 16 Jacob Steek.... 157 Robert Spear... 153 Mary Smith... 7 Geo Stough.... And Scott..... 153 Jacob Slough...

Parhara Snyder... 153 Jacob Slough.... 44 John Weidman... 16 Jacob Weidman... John Wilson... 13 106 John Witmer... 60 Henry Witmer... 66 100 Wm Wilson.... 89 433 153 Joseph J Wallace...

ames Hepburn ... 31 Jas Hepburn TAYLOR TWP. Ames and Shaffer 58 John Beigktol 73 147 Abednigo Ste Ezekial Loyon .. Daniel Montgomery

433 163 John McCammond, 434 Polly McEwen..... Henry McEwen..... Ridgway, Budd & Co, ow'r

4 40 210 same.
6 80 210 same.
2 20 433 163 Barbara Shyder.
2 20 50 C Van Pool.
2 20 100 Thomsa Wilson Est.,
0 wners.
4 40 433 153 Joshua Williams.
4 20 434 Polly Williams.
8 80 125 John Van Pool.
2 20 20 C Van Pool.
2 20 300 Joseph Welsh.
3 30 433 153 Joshua Williams. UNION TWP.

Stevens,

Ebinerer Branbam ... 20 1 WALKER TWP.

Wm Biady...

129 Mary Currier...

Mary Currier...

Mary Currier...

Margaret Daugherty

125 Elizab'th Daugherty

42 Mary Daugherty

98 do

19 Jesse Evans...

39 do

26 Wm Eckert...

Geo Fry...

Wm Eckert..... Geo Fry..... Wm Gilbert..... 243 55

Jas T Hale

Bamuel Linn

153 Wm Lewis

153 Wm Lewis

153 Wm Lewis

J Z Long

J Z Long

John Liggett

John 8 Mason

Jas McMannus

153 M T Milliken

73 N J Mitchell

Benj R Morgan

Alex Martha

153 Jasper Maylan

153 Jasper Maylan

153 Geo Meade

153 Wm McPherson

120 Luke Misner

153 Robt Morris

Alex Martin WORTH TWP. Geo Parker
Robt Rainey
Joh Reily
153 Thos L Shippen
153 Ed Scott
153 Marzaret Spear
Jos Tompkins
153 Benj H Tallman
152 A S Valentine
153 Rebecca Waln
163 Moore Wharton
153 Elizabeth Wharton

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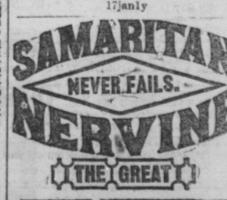
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