*The Photographic News* July 8, 1887

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Photography and Silhouettes

Sir, - my new suggestion for the commercial development of photography is appropriate to your columns. I therefore ask you to let me address your readers on the subject of black silhouettes. They were very familiar to those who lived in the pre-photographic period. They were quickly cut out of paper by a deft hand with a small keen pair of scissors, and at least one of the many operators in this way ranked as an artist capable of making excellent likenesses. The paper was black on one side, and the silhouette that had been cut out was pasted then and there, with the black side upwards, upon a white card, and framed. A perfectly durable, and often a good likeness was thereby produced in a very short time. This art was superceded by photography, and is now temporarily extinct; but I want to show that it might with great facility - and, I think, with some profit in a humble way - be advantageously re-introduced by the help of the very agency that extinguished it.

I will explain what I myself did, beginning, as one always does, in the wrong way first, and afterwards getting right. I wanted, for some experimental purposes of my own, to obtain a large number of silhouettes; in fact, I wanted photographs of such cleanly-cut profiles as most persons have had occasion to see, of those who stand in a long dark passage between themselves and an only window at the end of it. I therefore arranged a makeshift dark tunnel. At one end was the camera; in front of the other end was a white sheet inclined to the light, and in the tunnel was the sitter for the time. As viewed in the camera, the appearance was that of a field of brilliant white, out of which was sharply cut so much as corresponded to the silhouette of the sitter's face. A rapid exposure sufficed, and I thereby got a white silhouette upon a black ground, which might be used as a negative to produce black silhouettes on a white ground. They served my own particular purpose perfectly, but they had not the clean and sharply-contrasted effect of the old silhouettes; so I cut some of them out of the paper and blackened them, and pasted them on cards. If I had blackened them with aniline ink, I could have produced popyrographed copies; or if I had greased them, and pressed them on stone or on zinc, the lithographer could have worked off copies by the hundred.

My suggestion lies in this last direction. It is, that the photographer, without taking any trouble to construct a tunnel as I did, should photograph on paper the profile of the sitter, either in strong light against a dark background, or *vice versa*; to develop sufficiently to see the image clearly, and then to wash for a second, but not to fix, and rapidly to dry it in the dark; next in full, but somewhat non-actinic light, to quickly cut out the silhouette before the image has time to fade; lastly, to (a) blacken the silhouette, dry and mount it; or (b) grease it, press it on a small lithographic surface, and thence to take as many prints as are desired. The whole of the latter process need occupy very few minutes, and the sitter could walk away in possession of his or her likenesses.

Now the merits of this plan are; that no artistic, and little photographic skill is required; there is no need for a careful adjustment of exposure of lights, and of position, or of accessories; there is no necessity for careful development. The carrying out of the process requires no skill except so far as the cutting out is concerned, which any neat-handed person can soon learn to do quickly and well. The arrangements for rapid drying, and for the various printing operations, might be of the humblest description, and yet a really useful and pleasing likeness might be turned out, far superior in value to the commoner kind of photographs, and to not a few of the more costly ones. The rapidity and cheapness with which lithographed

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copies could be supplied would be incomparably superior to anything that photography can effect. The cost of outfit for experimentalising, if a lithographer can be induced to help in the first instance, does not exceed that of a pair of sharp lace-cutting scissors; and it would, I think, be well worth the while of an enterprising photographer who is slack of work to attempt to establish and supply a demand for prettily-mounted silhouettes.

Francis Galton.

Photographic News, July 23, 1887

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Photography and Silhouettes.

Sir, - In reply to your request I enclose an average silhouette, which I cut from an ordinary print taken from the original negative. Neater fingers than mine would have cut it out better. Sometimes I have cut out the silhouettes from prints as soon as they were removed from the printing frame, and left them to blacken; they suited my particular purpose, but it is needless to say that their tint was not agreeable. I have sometimes printed them as "blues" (cyanide prints) on the paper used by architects, and these are very effective.

### Silhouette [image]

Those who are acquainted with Lavater's original work, of which the small English translation is little better than a caricature, will understand the value of well-made silhouettes. They are particularly useful is studying family characteristics, which, I think, are, on the average, far better observed in profiles than in any other one view of the features. The truth of this statement may be verified in church, where whole families, each occupying a pew, can often be seen sideways, and each family can be taken in and its members compared with a single glance. The instances will be found numerous in which the profiles of the family are curiously similar, especially those of the mother and

her daughters. This is most noticeable where their ages and bodily shapes differ greatly, as when the daughters are partly children and partly slim girls, and the mother is not slim at all.

Permit me to take this opportunity of disclaiming a misprint in the very first word of my letter the week before last. It was printed "My"; it should have been "Any." The effect of the "My" is to give a tone of presumption to what I wished to say, quite foreign to my real intention.

Francis Galton

Jear 8, 1887.]

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shetenerashe and my sug that of the brothers How the work of star-sheeting s first directed his atte he application of photo botography to ary to the a work of star-charting, which had lose at Paris by the older methods of ast By you

non was amongst the first to take up the work in Eng-ad here on the screen is one of his photographs with a ious entext-d in December 1883. But being engaged in arches, Common made no attempt to co survey of the heavens.

as Roberts, of Liverpool, was also early at work in the field, and after preliminary experiments he acquired a rish telescope, with which he began a systematic survey of orthern heavens.

the normal more and the second provided the second pro-It required some time to find the necessary means and appa-ratus to begin the realisation of my ideas at the Cape, but at hat the work was started in the beginning of 1855 on the following definite plan, viz., to complete the cartography of the havens from 20° south of the Equator to the S-suth Pole, and so an certainly to include all stars to the 9th megnitude. (To be continued.)

### Patent Intelligence.

Applications for Lotters Patent. 9158. JORANN BARTOS and HERMANN KUMM, 46, Lim 150. JORANY BARTON and ELENARY RUTER, 40, LABORE 5 100 Fields, for "Improved process for producing grained relief and integlio elicités from photographs."—29th June, 1887. 1290. Jamis Anyuwa Richanses, 127, Long Street, Sparbook, Birmingham, for "An improved adjustable stand for holding

spham, for "An improved adjustable stand to exhibit photos, cards of every descript a of like mature."—29th June, 1857.

2941. ALFRED PURFERET, 128, Colmore Row, Birminghum, for "Improvements in combined changing bones and dark slides for photographic purposes, and in portable dark chambers for use therewith.—Int July, 1887.

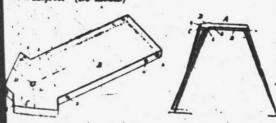
## Official Abstract of Accepted Complete Specifications.

Envanys, 11,231, 1896. " Sensitized plates, films, &c." Machine for butting photographic plates ; adjustable guides for tool and plate ; weighted tool holder.

Gamtuz and Marrin, 7035, 1887. "Artificial light." Pow-deped magnesium mined with chlorate, mitrate, &c., and pressinte of putash, phesphorus, &c.

#### Patents Granted in America.

344,628. Thomas H. BLAIR, Boston, Mass., "Tripod-top for photographic concerns."-Filed January 22nd, 1867. Berial No. 225,166. (No model.)



I. In a to ud-top, of a tripud-t ie tris ort arms C D, and a long m B, th g with the latter, bein tially

d of the arms B, C, D, provided with by played at 11, 25, 85, 44, by

# Correspondence.

#### PHOTOGRAPHY AND SILHOUETTES.

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it, press it on a small lithographic take as many prints as are desir d. Th tter process need occupy very few minutes, itter could walk away in possession of his or her li Now the merits of this plan are, that no art

Now the merits of this plan are, t little photographic skill is required; is a careful adjustment of exposure of lig or of accessories; there is no necessity ment. The carrying out of the prose except so far as the cutting out is on next-handed person can seen learn to of The arrangements for rapid daying, a ing out is const too learn to do a rid daying The art Constitution of a set of planeting the set of the respective for various to the set respective and the basis for a fiber of the set  copies could be supplied would be incomparably superior to anything that photography can effect. The cost of costfit forescreating stations, does not exceed that of a pair of sharp inco-cutting sciences ; and it would, I think, be well worth the while of an enterprising photographer who is shack of work to attempt to establish and supply a demand for pretilly-mounted silhouettes.

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FRANCES GALTON.

#### MAYALL'S PATENT.

MATALL'S PATENT. Sta.—In the Nuws of July 1st, I use that Mr. Walenn signs himself as "Abridger of 'Photographic' and other Specifications of Patents to the Hos. the Board of Trade." Doubtiess Mr. Walenn has abridged specifications relating to photography for the Patent Office, but it is due to the Abridger of the last volume of "Abridgements of Specifi-cations relating to Photography," published in 1885 by the Patent Office, to state that Mr. Walenn had no connection whatever with that volume.—I am, yours, &c., CHAPTEAN JORTH.

# Proceedings of Societies.

LONDON AND PROVINCIAL PROTOGRAPHIC AND

LORDON AND PROVENCIAL PROPOSBALTED ASSOCIATION. A RESTERN was hold on the 20th ult, A. MACKIN in the chair. The Hex. SECRETARY proposed the adjournment of the busi-ness of the Annual Meeting for four weaks, when he hoped several members who had gues to the Convention would have returned. This course was adopted, and technical matthew wave considered. The course and prevention of iridescent stains at the margin of plates was discussed. W. R. DERESENAY midd is would not occur if the plates were packed closely and hermetically saided. The marks could be removed by rubbing gently with water. The CRAIMAN used a pad of cloth moistened with turps, and in a batch proper to the ord he scalad the plates a couple of minutes in ammonia and broudde solution, afterwards adding pyregalied to perform development. This plate he had mover knows to full.

moves to fail. Some remarks upon fixing paper negatives followed. The properties of colin hypersiphite to water which was recom-mented ranged from eight context to one pound of the sail to each pint of water ; clearing in alum before fixing was said to prevent an effective action of the latter process in the case of Emolecing paper mention

Bendering power segnitives treasitures was then talked about ;
 Bendering power segnitives treasitures to us then talked about ;
 readine and other parelline being favoured by various ageshes.
 Attention was directed to an article in the Photographic Theory
 (How York), signed by E. P. Robinson, wherein it sets facth
 that the writer had hand good account, from different quar-ters, of a lease coming fate good account, for different quar-ters, of a lease coming fate good account, for different quar-ters, of a lease coming fate good account, for a different quar-ters, of a lease coming fate good account of the Jasten, manual "The Wale." The quantize was asked whether anyone had non ar heard anything of the expandition of this leas.
 W. E. Dimensional theory and the lease manded by Rr. Robinson to be an indication of Rodgheff's Aplanet, and deather to these manufactured in Paris, and sold under different mannes in this complete.

these manufact this company. W. H. Ass

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tar remarked that the Scotli Company wave fortifor the Web han. Id the bast Jublice yadd race views he had com Suptone Clark, who used a 1 6-insh from inst by O

no taken by Captain Case, to which a form equal to i when the state had be a discontinue, in which a form equal to i when the state of the plate was produced for instantanton work. The Box, descentary down attention to a memory par-pha estimate community to Plategraphic Societies. Ho and they reported report of memory provide at divertime at they community i fifthey would add to the it would not W. E. Damman : Mt

THE monthly moting was hold on the 30th alt, at the Reys Institution, the Provident, Genesas H. Roverss, in the chair. Vero Driffield was elected a member. The SECRETARY distributed the circulars of the exhibition of the Reyal Photographic Society of Irohand ; he also read a letter from the Secretary of the Reyal Meteoreduction Society, othing for photographic Society of Irohand ; he also such a letter from the Secretary of the Reyal Meteoreduction Society, othing for photographic generally to the outling the admentation of anatour photographers generally to the outling the diseasting R. Cherry comparison of the he hold and the state of the first secretary of the second se to the set a cut the

R. CROWE remark spative in existence let the Meteorela so of a lightning fash, and aginal Beristy are it. He re t a rapid vertilinear with b) and the Metaconsection of a lightning finsh, and would be pleased to be the Metaconsequent Society are it. He recommended from the experience, not a repid vectilizer with full appreture, and a deviced by the Metaconsequence of the Metaconsequence of the fightning finsh is quite actinic encough to improve inset of the fightning firsh is quite actinic encough to improve inset with the measure of the fightning firsh is quite actinic encough to improve inset with the measure of the fightning firsh is quite actinic encough to improve inset with the measure of the fightning firsh is quite actinic encough to improve inset with the argo sporters, whereas with the large sporters the plate would be generally forget insets and account of diffused light present with the argo approach the plate of the second of the plate of the plate of the plate of the second of the plate of the plate of the other of a group of the second of the other of a group of the second of the other of a group of the second of t

Remett excursion. W. A. WATTS read a paper entitled "Notes of a Visit to the Autotype Worka." Bone discussion score about the difficulty of estimating en-posure in carbon printing, score members thinking the reader of the paper had not attached sufficient importance to the difficulty. W. H. KINST remerked that with a little practice the diff-culty disappeared alongother. Dr. KENTOR read report of the Remett ensureices, from which it appeared that eight members took part, and that seventy plates ware exposed.

A oppoared that eight members took part, and that averaly plate were expand.
Dr. Konyon and R. J. Suyce exhibited some rangin.
A. W. Bunn reported on the Bohen Old Halls execution, vising Turion Towar, the Shill in the Woods, and Bmithich.
Fire members were present, the day being levely, and from fift to driv negative were obtained.
Mr. Berren reported that the Breates and Carden Half of execution to be find to the second set.
Br. Korren reported that the Breates and Carden Half of execution to be finded to be another were being being port in the execution.
Br. Berren reported that the Breates and Carden Half of execution and two friends taking port in the execution.
Brue found at the end of the day blass fifty-eine exposures half been mach, both plates and paper being used, the former bring Blevil, Reach's, Thermat's, Edwards', and Steam Walls de paper was Sentemat's edimention on "Paper versus Glass" was the opened by R. J. Berte, who chains disc means the date of the setting firm.

The adjourned to an opened by B. J. Save tage on arrend ground ground ground ground ground the tage of the site designed and Ro and he day adapted page A Property to result An Area and a set of anne : bei hennel genen wähnigt weise genen annellen V annellen im Bestellung is genen wähnigt weise genen annellen V annelle is beiter die einer beitere fanze gehannen. In Bienensen of a weise is bestellt is prinzen von henne beiter annellen der beiter annellen is bestellt der Annellen Genenke is der diese der annellen annellen is weise beiter dem bestellt of ginne stateful Gene ber attentionel für weise beiter dem bestellt of ginne stateful Gene ber attentionel für bestellt der annellen die ginne stateful Gene ber attentionel für bestellt der annellen die ginne stateful Gene ber attentionel für bestellt der anne genes menste die prostellen gene einer angeste bestellt der anne genes menste die prostellen gene under angeste bestellt der anne genes menste die prostellen genes weise regent in bestellt der anne genes menste die prostellen genes weise regent in bestellt der anne genes menste die prostellen genes weise regent in bestellt der anne genes menste die prostellen genes weise regent in bestellt der anne genes menste die prostellen genes weise regent in bestellt der anne genes menste die prostellen genes weise regent in bestellt der anne genes menste die genes menstellt genes weise regent in bestellt der anne genes menste die genes menstellt genes weise regent in bestellt genes menstellt genes menstellt genes weise state der anne genes menstellt A : he four

### THE PHOTOGRAPHIC NEWS.

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centre or axis a, around which it is essand to revolve, in com-bination with the rollers E P, arranged to carvy the conditive parce E, which is carried over the rollers C D between the rollers G ; the rollers C D being caused to revielve with the instrument'A, so that a fresh surface of sensitive film shall be brought continuously within the focus of the less as the instrument A revolves, substantially as and for the purpose rified.

. 462

e. A photographic instrument A, pivotted on its optical centre or axis a, in combination with sensitive film located within the focus of its lens on a circle struck from the optical centre or pivot of the instrument, substantially as and for the purpose specified.

specified. 7. A photographic instrument A, pivotted on its optical centre or axis a, a sensitive film located within the focus of its leas on a sircle struck from the optical centre or pivot of the instrument, in combination with a narrow passage way located between the less and its focus, and enused to revolve with the instrument, substantially for the purpose hereinbefore explained.

10775. JOHN URIE, Senior, and JOHN URIE, Junior, both 53, Jamaica Street, Glasgow, Lanarkshire, Photograph Artists, for "Improvements in photographic print machines."—Duted August 23rd, 1886. The claim is for details of exposing machines of the Fontay

type.

#### Patents Granted in America.

306,517. LCDWIG LEXEDET, New York, N.Y., assignor, by mesne assignments, to Josephine Lester and Nina Lendry, both of same place. "Process of producing designs on glass plates." ""Filed September 3, 1866. Serial No. 212,509. (No model.)



CL -1. The he od pe on glass plates, co coating consisting coal-ter, bicerbonate then placing a patte consisting of providing a gines plate with a ag principally of Egyptian asphalt, colophony, ante of potassium, enoutchous, and exchantic, and mi-ter, bicarbonate of polansium, caoule hen placing a pattern of the design to-late, after which the plate and its pat-ttion of light, and the pattern is re-rashed with oil, substantially as describ m to be p d on the ----

2. A new article of manufacture, consisting of a giase p having a permanent coating consisting principally of Rgyp apphalt, colophony, coal-tar, bicarbonateol potamium, coaution conferrite, and gram-arabic, and designs printed on the sold g plates with the aid of light and patterns, substantially described. ally of Berry

described. 3. The herein-described composition of matter used for pro-ducing designs on glass pistes, consisting of Egyptian asphalk, coal-tar, blearbonate of potensions, sacoutcheous, gene-asphin, eclophony, escherite, and turpentine or becaus, in the proper-tions specified.

### Correspondence.

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#### PHOTOGRAPHY AND SILHOUETTES.

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DEAR SIR,---F. Galton's letter reminded of my own attempts about two years ago, one of which I enclose. It may be considered under-printed, also over-expased. The



fow I did excited but little attention. As photos, the is but little work in them, and they could be supplied cheaply. I think F. O.'s plan of setting out not a advantage. Yours truly. Corakill, Speciel, July 14.

Broceedings of Societies.

lant, to a A.L.A. --S., press The Ca