

The Daily Astorian.

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No. 75.

Speed at Which Wings are Driven.

From Fraser's Magazine.

The speed at which some wings are driven is enormous. It is occasionally so great as to cause the pinions to emit a droning sound. To this source the buzz of the fly, the drone of the bee, and the boom of the beetle are to be referred. When a grouse, partridge, or pheasant suddenly springs into the air, the sound produced by the whirring of its wings greatly resembles that produced by the contact of steel with the rapidly revolving stone of the knife-grinder. It has been estimated that the common fly moves its wings 330 times per second, i. e., 19,800 times per minute, and that the butterfly moves its wings nine times per second, or 540 times per minute. These movements represent an incredibly high speed even at the roots of the wings; but the speed is enormously increased at the tips of the wings, from the fact that the tips rotate upon the roots as centers. In reality, and as has been already indicated, the speed of the tips of the wings increases in proportion as the tips are removed from the axes of rotation, and in proportion as the wings are long. This is explained on a principle well understood in mechanics. If a rod or wing hinged at one point be made to vibrate, the free end of the rod or wing always passes through a very much greater space in a given time than the part nearer the root of the wing. The progressive increase in the speed of the wings, in proportion as the wings become larger, explains why the wings of bats and birds are not driven at the extravagant speed of insect wings, and how the large and long wings of large bats and birds and short wings of small bats and birds. That the wing is driven more slowly in proportion to its length is proved by experiment, and by observing the flight of large and small birds of the same genus. Thus, large gulls flap their wings much more slowly than small gulls; the configuration and relative size of the wings the body being the same as both. This is a hopeful feature in the construction of flying machines, as there can be no doubt that comparatively very slow movements will suffice for driving the long powerful wings required to elevate and propel flying machines. The speed of the wing is a part regulated by the amplitude of the wing. Thus if the wing be broad as well as long, the beats are necessarily reduced in frequency. This is especially true of the heron, which is one of the most picturesque and at the same time one of the slowest flying birds we have. I have timed the heron on several occasions and find that in ordinary flight its wings make exactly sixty up and sixty down strokes, that is, 120 beats per minute. In the pterodactyl, the great extinct Saurian, the wing was enormously elongated, and in this particular instance probably from fifty to sixty beats of the wing per minute sufficed for flight. Fifty or sixty pulsations of the wing per minute do not involve much wear and tear of the working parts, and I am strongly of the opinion that artificial flight, if once achieved, will become a comparatively safe means of locomotion as far as the machinery required is concerned.

—For the best Beer in Astoria, call for the Columbia Brewery Beer, acknowledged to be superior to all others.

—Never go shopping without consulting the advertising columns of THE ASTORIAN. They will tell you where the best bargains are to be had, and just what merchants are alive and doing business.

A Much-Married Man.

Washington Dispatch St. Louis Globe-Democrat.

The new secretary of the navy, Mr. Hunt, has been a much-married man. His first wife (now dead) was a Miss Andrews of Massachusetts. His second wife (also dead) was a Baltimore lady and a daughter of a commodore of the United States navy. His third wife was a widow, Mrs. Harrison, a daughter of the late Jacob Barker, and was some years the senior of Mr. Hunt. After three years of union they agreed to separate, and she was to go to Europe. While she was there Hunt undoubtedly procured the passage of a divorce act by the legislature of Louisiana adding a clause which could embrace his case, and abridging the time for decrees. Another legislature repealed this, but while it was in force he began a divorce suit. Hunt instituted his suit during the absence of his wife, who was represented according to law practice by a curator here, and whose duty it was to inform her of the suit. This proceeding is equivalent to the New York practice of service of summons by publication. The curator appointed by the court was D. C. Labatt. A decree was rendered against her—the curator filing an answer for her, and defending the suit as best he could—of absolute divorce. A year after this Hunt married a fourth time, a widow, a daughter of Mr. Adams, of New Orleans, who is his present wife. Mrs. Harrison Hunt undoubtedly knew of the Louisiana proceeding, but was advised that it would be a nullity, and that the probabilities were that under the republican regime she would not obtain justice. When he and his new wife, the fourth Mrs. Hunt, came on their wedding tour to New York, the third Mrs. Hunt, by John K. Porter, brought suit for divorce, alleging the relations of Mr. and Mrs. Hunt No. 4. Mrs. Harrison Hunt was very resolute, as were her friends, who thought as New Orleans society thought, and still think, that Hunt had taken unfair advantage. She took the case up to the United States Supreme court, but every court and judge held that under the Constitution they must give full force to the Louisiana decree.

Warrantee deeds at Tax Astorian office.

—We thought we were too late until we saw the advertisement of Kendall's Spain Cure.

—Credit Court Blanks, County Court Blanks, Justice Court Blanks, Shipping Blanks, Miscellaneous Blanks, Deeds, Mortgages, etc., for Sale at THE ASTORIAN OFFICE.

Marvel not that I say unto you, ye must pay the printer. Whoever neglecteth to pay the printer, hath not eternal life abiding in him. Who hath sorrow, who hath weep, who hath the nightmare! They who forget to render unto the printer his just dues. If a man live many years and payeth not for THE ASTORIAN, behold he shall not die in peace till he hath rendered to the printer that which he hath withheld.

—By a recent postal decision men can actually make money by getting their bills and statements of accounts printed. Statements of accounts and bills of sale when made out on paper having printed headings, can be sent by mail for one cent, if the envelope is left unsealed; whereas, if it is made out on unprinted paper, it will cost three cents. Thus by patronizing THE ASTORIAN two cents can be saved on every bill or statement that is sent out through the mail.

—What pleasure it is to pay one's debts! In the first place, it removes that uneasiness which a person feels from dependence and obligation. It affords pleasure to the creditor, and therefore gratifies our social affection. It proclaims that future confidence which is so interesting to an honest mind. It opens a prospect of being readily supplied with what you want on future occasions. It leaves a consciousness of our virtue; and it is a measure we know to be right, both in point of justice and sound economy. Finally, it is the main support of simple reputation. Pay us, that we may pay others.

Killing a Tiger.

At Rangoon, in Burma, recently in one of the most populous quarters of the town, a tiger was killed in broad daylight. The brute had been hauging about Dallah, the straggling village on the other side of the river from Rangoon, for several days, and early one morning swam across the river to Rangoon. Faggod with the long mile through a swift current, and no doubt astonished at the number of people he came across, he encoined himself beneath a house. The district superintendent of police heard of the arrival, and, armed with a Winchester repeating rifle, went down with another Englishman in the direction pointed out. They came upon the tiger rather unexpectedly. Entering one of the houses on the river bank, they all of a sudden discovered the animal only a few inches below them, with nothing but the scant protection of an open bamboo floorwork between them and him. A bullet between the shoulders, however, dropped him before any harm could be done, and a couple of shots made things sure. Then the Burmans came crowding around in scores. The inspector tried to keep them off with his gun, forgetting it was at full cock. Suddenly it went off, and a Burman was shot through the shoulder, and died a few hours afterward. The tiger was just under nine feet from tip to tip.

Horse Education.

In something written we have an indistinct recollection of having made reference to a general disposition among boys in their teens, as well as boys of maturer years, to enlighten and bless the world with their profound knowledge of the horse and his history. Our books and newspapers are full of this kind of literature, and it varies in style from the production of the child at school, commencing with: The horse has four legs and a tail; up to the eloquent tribute of the scholar when he quotes from Job: That his neck is clothed with thunder and the glory of his nostrils is terrible. He smelleth the battle afar off, the thunder of the captains and the shouting. Between these two extremes of the child at his first school composition, and the professional literature, we have every grade of pretension, and each professing to have mastered the whole subject. As we approach the close of this nineteenth century, we begin to look for something better in this department of knowledge from those who assume to instruct. And it is to be found in Kendall's Treatise on the horse, sent by mail to any person for twenty-five cents, postage paid. Apply to THE ASTORIAN OFFICE, or address D. C. Ireland, Astoria, Oregon.

Advertisements are the quiet soldiers who never intrude, but who never fail to make themselves known, and are seen and remembered despite the will of the reader who could not forget them if he would.

—Who wants to know about the great State where the exports equal in value \$75 per head of the entire population, send \$1.00 to D. C. Ireland for THE ASTORIAN, the only Oregon paper, published wholly in the interest of Oregon.

—To discriminate between what is news and what is advertising in an item is often a difficult task for a publisher. Newspapers, to be on the safe side, must charge when the item brings money to others. Such is but justice, and in compliance with the laws of business, and without this discrimination a newspaper will fail financially.

—A wealthy Pittsburg merchant is reported as having said: "I always feel happy when I am advertising, for then I know, that waking or sleeping, I have a strong, though silent orator working for me; one who never tires, never sleeps, never makes mistakes and who is certain to enter the households from which, if at all, my trade must come."

—We desire it to be distinctly understood that those who send us advertisements from abroad, must send the cash with the advertisements, if they would have them appear. We have numbers of advertisements sent us from strangers saying, "Please insert and send bill." This we cannot do; the cash must accompany the copy and the order.

—If you will send us five subscribers for one year with \$10.00 advance payment, at the rate of \$2.00 for each name, we will send one copy of THE ASTORIAN free, to any address you may give, and we will send an additional copy for each additional five names that you may send to us, with the cash in advance of course, for one year.

MISCELLANEOUS.

Notice of Administratrix Appointment.

NOTICE IS HEREBY GIVEN THAT the undersigned has been duly appointed administratrix of the estate of Lyman P. Hall, deceased, by the Hon. County court of the State of Oregon, in the county of Clatsop. All persons having claims against said estate are required to present the same to the duly verified within six months from this date. H. VAN DUSEN, Administratrix of the estate of Lyman P. Hall, deceased.

West-Sixth Street.

NOTICE IS HEREBY GIVEN THAT the assessment made by ordinance No. 405, for the improvement of West-sixth street in Salween's Addition, from north side of Wall street to the north side of Berry street, in the manner provided by ordinance No. 404 and the following described lots of land fronting upon said street, West-sixth street, between Wall and Berry streets is due and payable at the office of the City Treasurer in full by the 1st day of April, 1881, in silver coin, and unless paid within five days from the expiration of this notice the Commission Council will order warrants issued for the collection thereof. The assessment is as follows:

No. of Vds.	Owner.	Lot No.	Ass't.
14	Mrs. O. L. Adams	264	\$13.29
14	C. W. Shively	706	139.60
22	Mrs. Annie Page	720	656.60
12	V. Van Dusen	229	29.22
32	E. Barth	529	111.88
33	Mrs. Nancy Welch	172	234.60
33	Mrs. Nancy Welch	710	142.60
12	Miss W. Welch	824	54.80
22	L. W. Gray	232	474.60
15	A. Van Dusen	1074	254.80
15	A. Van Dusen	2520	427.80

By order of the Commission Council,
R. H. CARDWELL,
Auditor and Clerk,
Astoria, Oregon, March 25, 1881. 71-1063

\$80 Reward.

TWENTY DOLLARS WILL BE PAID for the recovery of each of the bodies of four Chinamen drowned in Columbia river near Brookfield on Wednesday last. One was twenty-one years of age, and had on his person at the time a chain of 250 and seven dollars in silver. The second was twenty-three years old and had a pistol and seven dollars in silver. The third was twenty-four years old and had three twenty dollar gold pieces, a twenty-five cent piece, and a silver watch. The fourth was twenty-eight years old and had \$100 in gold. The above rewards will be paid by the undersigned.
CHIN LUNG,
32 West Coast Packing Co., Astoria, Oregon.
32-4417-9

THE LARGEST Printing Office in the World!

HISTORY OF THE Government Printing Office. AT WASHINGTON, D. C., Embracing many interesting incidents and events in the workings of this great establishment, with numerous illustrations, 8vo., about 125 to 150 pages. Price—In Paper Covers, 75 cts. per copy; in Cloth, \$1.00.

SYNOPSIS OF CONTENTS:

CHAPTER I.—Brief History of Public Printing from 1783 to 1881: 2. Superintendents of Public Printing from 1822 to 1881; 3. Chief Clerks from 1822 to 1881; 4. Foremen and Assistant Foremen of Printing and Binding from 1822 to 1881; 5. Present Organization of the Office; 6. Duties of the Public Printer, etc.

CHAPTER II.—The Printing Department: 1. The Document Room; 2. The Job Room; 3. The Press Room; 4. The Patent Office Specification Room; 5. The Printing Room; 6. The Congressional Record Room, with a brief allusion to the early publication of the Debates of Congress; 7. The Branch Office in the Treasury Department Building; 8. Other Branch Offices.

CHAPTER III.—The Stereotyping and Electrotyping Departments.

CHAPTER IV.—The Binding Department: 1. The Binding Room; 2. The Sewing Room; 3. The Forwarding Room; 4. The Finishing Room; 5. Branch Binderies.

CHAPTER V.—The Machine and Carpenter Shops: 2. The Vault for Stereotype Plates; 3. Press Warehouses; 4. Warehouse for Bindery Materials, etc., etc.

APPENDIX.—I. Alphabetical List of Employees at date of Publication; 2. All Laws relating to Public Printing up to the close of the 46th Congress.

The above work is now ready for the printer, and will be published in a few weeks, and will be sold by S. C. RICHMOND, ONLY. The manuscript has been prepared with great care; the very best sources of information consulted; the most interesting portions of the relations between the printer and the public printed; the book readable and reliable. Parties desiring copies of this work should address, without delay, R. W. KERR, Government Printing Office, Washington, D. C., 62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100.

H. CARTWRIGHT & SON, BOILER MAKERS AND SHEET IRON WORKERS.

SMOKE STACKS MADE TO ORDER Vats Lined and Other Cancery Work Done.

All repairs completed in the best style on short notice. Adjoining McLellan's blacksmith shop, Astoria.

First Class Saloon.

CHICAGO BREWERY DEPOT, On the Broadway, opposite the Oregon Railway and Navigation Co's wharf.

New Bagatelle Table, (The Chinese must go.)

The choicest brands of foreign and domestic WINES, LIQUORS AND CIGARS. **Best Chicago Beer.**

THE ASTORIA Photograph Gallery

CARD SIZE PHOTOGRAPHS, \$2.50 Per Dozen.

CABINET SIZE PHOTOGRAPHS \$4.00 Per Dozen.

Special rates for families.

Have You a Horse? If so, YOU MUST NOT FAIL TO GET KENDALL'S TREATISE ON THE HORSE. It is worth ten times its cost to every one having a horse or a team. Its cost is but 25 cents and will be sent postpaid on receipt of price, and the money will be refunded to any who do not think it worth its price. Address: THE ASTORIAN OFFICE.

SHIPPING TAGS

THE BEST QUALITY, WILL BE SOLD by the hundred, or by the box, printed or plain, to suit customers. THE ASTORIAN OFFICE.

BANKING AND INSURANCE.

BANKING AND INSURANCE. I. W. CASE, BROKER, BANKER AND INSURANCE AGENT.

OFFICE HOURS: FROM 8 O'CLOCK A. M. UNTIL 4 O'CLOCK P. M.

Home Mutual Insurance Co., OF CALIFORNIA.

J. F. Houghton, President
C. H. E. STORY, Secretary
Geo. L. STORY, Agent for Oregon

Capital paid up in U. S. gold coin \$300,000.00

I. W. CASE, Agent,
Chenamus street, Astoria, Oregon.

\$67,000,000 CAPITAL.

LIVERPOOL AND LONDON AND GLOBE, NORTH BRITISH AND MERCANTILE OF LONDON AND EDINBURGH. OLD CONNECTICUT OF HARTFORD, AND COMMERCIAL OF CALIFORNIA FIRE INSURANCE COMPANIES. Representing a capital of \$67,000,000. A. VAN DUSEN, Agent.

HOTELS AND RESTAURANTS.

A. J. MEGLER, C. B. WRIGHT
OCCIDENT HOTEL.
MEGLER & WRIGHT, Proprietors.
Astoria, Oregon.

THE PROPRIETORS ARE HAPPY TO announce that the above hotel has been repainted and refurnished, adding greatly to the comfort of its guests and is now the best hotel north of San Francisco.

C. W. KNOWLES, AL. ZIEBER, CLARENDON HOTEL.

PORTLAND, OREGON
ZIEBER & KNOWLES, Proprietors.
Free coach to and from the house. THE DAILY ASTORIAN is on file at the Clarendon Hotel reading room.

Pioneer Restaurant Hotel.

MAIN STREET, ASTORIA
Mrs. S. N. Arrigoni, Proprietor

THE TRAVELING PUBLIC WILL FIND the Pioneer first class in all respects, and a share of their patronage is respectfully solicited.
Board and lodging by the day or week.

The New York Oyster Saloon

Will serve to their customers from this date as follows:
TEA, COFFEE, CHOCOLATE.

Eastern Oysters Always on Hand.

And will be kept as a first class Oyster Saloon, in first class style.
DANIEL GRANT, Manager.

Fair Wind Coffee Saloon

—AND—
CHOP HOUSE.
WATER STREET, ASTORIA.
Next door to Dr. Kinsey's.
Coffee, Tea and Chocolate, with cake, 40 Cents.
Chops Cooked to Order.
Fine Wines, Liquors and Cigars of the best brands.
Having just opened the above establishment we cordially invite our friends and the public generally to give us a trial.
FOARD & EVANS'.

ROSCOE'S FIRST CLASS Oyster Saloon.

MAIN STREET, ASTORIA.

THE UNDERSIGNED IS PLEASED TO announce to the Ladies' and Gentlemen of this City that he is now prepared to furnish for them, in first class style, and every style, OYSTERS, HOT COFFEE, TEA, ETC.

AT THE Ladies' and Gent's Oyster Saloon, MAIN STREET.
Please give me a call.
ROSCOE DIXON, Proprietor

C. H. STOCKTON, HOUSE, SIGN AND CARRIAGE PAINTER.

—AND—
PAPER HANGING AND WALL COLORING—A SPECIALTY—
GLAZING PROMPTLY ATTENDED TO.
Shop next door to Astorian Office, in Shuster's building.

TIN PLATE, BLOCK TIN

For sale ex Warehouse at Astoria or Portland by **BALFOUR, GUTHRIE & Co.** Portland, Oregon.

BUSINESS CARDS.

J. Q. A. BOWLEY, ATTORNEY AT LAW, Chenamus Street, ASTORIA, OREGON

C. W. FULTON, ATTORNEY AT LAW, ASTORIA, OREGON
Office over Page & Allen's store, Cass street

J. W. ROBB, ATTORNEY AT LAW, ASTORIA, OREGON
Office over Warren & Eaton's Astoria Market, opposite the Occident Hotel.

E. C. HOLDEN, NOTARY PUBLIC, AUCTIONEER, COMMISSION AND INSURANCE AGENT.

A. VAN DUSEN, NOTARY PUBLIC, Chenamus Street, near Occident Hotel, ASTORIA, OREGON.
Agent Wells, Fargo & Co.

F. P. HICKS, DENTIST, ASTORIA, OREGON
Resides in Allen's building up stairs, corner of Cass and Seaside streets.

DR. M. D. JENNINGS, PHYSICIAN AND SURGEON, Graduate University of Virginia, 1868. Physician to Bay View Hospital, Baltimore City, 1869-'70.
OFFICE—In Page & Allen's building, up stairs, Astoria.

JAY TUTTLE, M. D., PHYSICIAN AND SURGEON, OFFICE—Over the White Horse Store. RESIDENCE—Next door to Mrs. Monson's boarding house, Chenamus street, Astoria, Oregon.

J. C. ORCHARD, DENTIST, Dental Rooms, SUSTER'S Photograph Building.

D. A. McINTOSH, MERCHANT TAILOR, Occident Hotel Building, ASTORIA, OREGON

C. H. BAIN & CO., DEALER IN Doors, Windows, Blinds, Transoms, Lumber, Etc. All kinds of Oak Lumber, Glass, Boat Material, etc. Steam Mill near Weston hotel, Cor. Genevieve and Astor streets.

J. G. FAIRFOWL & SON, STEVEDORES AND RIGGERS, Portland and Astoria, Oregon. Refer by permission to—Rogers, Meyers & Co., Allen & Lewis, Corbit & Macleay, Portland, Oregon.

W. M. UHLENHART, Occident Hotel Hair Dressing Saloon, ASTORIA, OREGON.

Hot, Cold, Shower, Steam and Sulphur BATHS. Special attention given to ladies' and children's hair cutting. Private Entrance for Ladies.

WILLIAM FRY, PRACTICAL BOOT AND SHOE MAKER, CHENAMUS STREET, opposite Adler's Book Store, ASTORIA, OREGON.
Perfect fits guaranteed. All work promptly fitted.

Music Lessons. T. F. CULLEN and C. E. BARNES, TEACHERS OF VIOLIN, PIANO, GUITAR, CORNET AND BANJO. Would like a few pupils on either of the above instruments. Terms—Eight lessons for five dollars. Orders left at Stevens & Sons book store will be promptly attended to.

J. T. BORGHERS, MANUFACTURER AND PACKER OF CAVIAR, SMOKED SALMON. Cash paid for fresh BLACK STURGEON SPAWN. Smoked Sturgeon, and smoked Salmon put up in tins to ship to any part of the world. Also, trout bait (salmon eggs) put up in cans and warranted to keep any length of time. Depot at Rogers Central Market, corner Cass and Chenamus streets, Astoria.

To-Night, To-Night, GRAND BALL, AT MUSIC HALL, THIS EVENING.

E. A. QUINN, dealer in FAMILY GROCERIES, NAILS, MILL FEED AND HAY. Cash paid for country produce. Small profits on cash sales. Astoria, Oregon, corner of Main and Squemochee streets.

SPILES. The undersigned is prepared to furnish a large number of Spiles and Spars at his place on short notice, at reasonable rates. Apply to C. G. CAPLES, Columbia City.