

HOW A CAT FALLS.

Experiments to Determine Why It Always Lands on Its Feet.

Nature prints a series of photographs of a tumbling cat, taken by M. Marey with the view of determining the mechanical conditions which enable the animal to alight on its feet.

The cat was held by its feet and let go in that position; and in the first five phases scarcely any perceptible change in position is shown.

The hind legs, however, being stretched out and almost perpendicular to the axis of the body, possess a moment of inertia which opposes motion in the opposite direction to that which the torsion couple tends to produce.

The torsion couple which produces the action of the muscles of the vertebrae acts at first on the forelegs, which have a very small motion of inertia on account of the front feet being foreshortened and pressed against the neck.

The hind legs, however, being stretched out and almost perpendicular to the axis of the body, possess a moment of inertia which opposes motion in the opposite direction to that which the torsion couple tends to produce.

The end-of-the-century baby is a philosopher. A child was rebuked by her father for breaking a window in a fit of temper.

"This, my child," said the father, "is wickedness." "No, papa," replied the child, reproachfully, "it is hereditary."

New missionary—Will your majesty kindly inform me where I can find my predecessor? King of the Cannibal Islands—Oh! he went into the interior a few months ago. When you get in that condition, I'll provide you with transportation to the same place.

TO THE PUBLIC—The Oregonian charges for all meeting notices of whatever description...

NEW TODAY. WOOD & COAL. Fire and oak wood, cheap and extra dry.

LOANS AT LOWEST RATES. Money promptly on mortgages and first-class bonds.

STEAMBOATS. I will furnish steamboats with fire wood at \$2. Taylor-street dock, East Side.

MORTGAGE LOANS. To \$5,000. C. E. BERRY & CO., Concord Bldg.

S. B. OGILBE & CO. Abington Building. Loans on improved city property.

FOR TILLAMOOK AND NEHALEM. Oregon Coast Transportation Co.'s Steamer W. H. HARRISON.

AUCTION SALE. On Monday (tomorrow) Jan. 14. At corner of Alder and Park.

AUCTION SALE. On Tuesday next, Jan. 15th. At the private residence, 44 Jefferson st., cor. 14th.

AUCTION SALE. On Thursday Next. At Central Auction Room, corner of Alder and Park.

OUR WANTS BOILED DOWN. A purchaser for a drug store in northern end of the city.

TO EXCHANGE. TO TRADE—FOR FARM OR ACREAGE. 200 acres, near Astoria.

FOR RENT—FARMS. FINE 100-ACRE LAND. ALL FENCED and mostly under cultivation.

FOR RENT—35 ACRES. 12 ACRES IN CULTIVATION; home and well; one mile from Let's O. O. Inquire of I. Vandora.

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DIED. FIELD—At Mount Taylor, Jan. 11, Samuel H. Field, aged 74 years.

NEW TODAY. Blanket Sale today. Mealen & McDowell.

WALL PAPER. THE PER DOUBLE ROLL. AT Schofield & Moran's, 192 Third st.

TO SOCIETIES—SOCIETIES WISHING HALL or lodges-rooms, can be accommodated in a proposed new building.

MRS. R. C. GARDNER, WHO HAS RETURNED from San Francisco, will resume in the afternoon at the Grand Opera House.

TEN THOUSAND DOLLARS IN FIRST MORTGAGE on Eastern Oregon farms.

FIVE THOUSAND DOLLAR MORTGAGE on a farm of 840 acres, near Heppner, Or.

WANTED—SITUATION, BY A TRAVELING SALESMAN, on the road or inside.

WE HAVE SOME VERY DESIRABLE RESIDENCES on Young's Island, near Astoria.

SACRIFICE OF BUSINESS PROPERTY—WE have for sale three pieces of business property.

COAL AND WOOD—DRY—VERY BEST in the city.

ADVERTISING RATES IN CLASSIFIED COLUMN. For Rent Rooms and Employment Wanted.

FOR SALE—REAL ESTATE. HERE ARE A FEW OF THE MANY BARGAINS offered by the Oregonian.

FOR SALE—NEAR CITY, ON MOUNT SCOTT. 100 acres, 4000 ft. high.

FOR SALE—MODERN EIGHT-ROOM HOUSE, nearly new, with cement-floored basement.

THIRTEEN ACRES, 31 MILES EAST OF PORTLAND, on Young's Island.

BEAUTIFUL RESIDENCE LOTS IN RIVER-SIDE, Highland Park, Roseville and vicinity.

FOR SALE—A BARGAIN—QUARTER BLOCK, 100 ft. wide, 100 ft. deep.

FOR SALE—COTTAGE AND TWO LOTS. 100 ft. wide, 100 ft. deep.

FOR SALE—A BARGAIN—HIGHLY IMPROVED fruit farm.

FREE ILLUSTRATED CIRCULARS OF cheap land. Griffin, Astoria, Ore.

FOR RENT—FARMS. FINE 100-ACRE LAND. ALL FENCED and mostly under cultivation.

FARM FOR RENT—30 ACRES; 14 ACRES IN CULTIVATION; home and well; one mile from Let's O. O.

FOR RENT—25 ACRES; 12 ACRES IN CULTIVATION; home and well; one mile from Let's O. O.

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TO EXCHANGE. THE LARGEST CHANCE—BEAUTIFUL, sixty-five acres, on Macdonald road.

VACANT LOTS AND OTHER PROPERTY. For city houses, Portland Savings and Oregon National bank deposits.

WILL EXCHANGE A FIRST-CLASS FRUIT FARM for inside Portland property.

WILL TRADE CHOICE FRUIT FARM FOR country estate, with small stock.

UNINCORPORATED LANDS, NEAR PORTLAND and West Side city property.

FOR SALE—MISCELLANEOUS. YOUR MONEY, WITH 200 PER CENT PROFIT.

DESK, ROLLER-TOP, 5-FOOT, WITH REFRIGERATOR, for sale.

SECOND-HAND MACHINERY; DANA, ALBION & Walker now occupy their new premises.

FOR SALE—VERY CHEAP—20 TONS GOOD BALED CHAY.

FOR SALE—1000 CORDS OF FIRST-CLASS FIRE WOOD.

HELP WANTED—MALE. Men to sell baking powder to the grocer.

WANTED—\$5 per 1000 for distributing circulars, good territory.

WANTED—ABLE-BODIED MEN; OF GOOD CHARACTER, between 20 and 30 years of age.

SALESMEN WANTED—\$5 A DAY; NO DELIVERY or collections; costly outfit free.

WANTED—200 MEN TO UNLOAD SCHOONERS; men to be employed on schooner.

Wanted—Men in every county to act as private detectives under instructions.

WANTED—LADY PARTNER, WITH \$500 IN MANUFACTURING BUSINESS.

SITUATIONS WANTED—MALE. Bookkeepers and Clerks.

SITUATION WANTED—BY EXPERIENCED BOOKKEEPER; would act as assistant.

SITUATION WANTED—BY A SMART YOUNG MAN, 18 years old; would prefer a position in store.

WANTED—BY COMPETENT BOOKKEEPER; a small set of books to post and balance.

SITUATION WANTED—BY A FIRST-CLASS DRESSMAKER; would act as assistant.

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SITUATION WANTED—BY AN ENGLISH GIRL, to do second work and sewing or general housework.

SIX GIRLS WANT WORK. 421 EAST COUCH street.

SITUATION WANTED—AS STENOGRAPHER AND TYPIST; four years' experience.

FASHIONABLE DRESSMAKER, LATE OF San Francisco, wishes engagements.

SITUATIONS WANTED—FEMALE. REFINED YOUNG LADY WISHES TO ASSIST family going East.

WANTED—AGENTS. WHY DO PEOPLE COMPLAIN OF HARD TIMES?

WANTED—LADY AGENT. TO SELL THE BEST-SWARING and best-selling cream on earth.

LADIES OR GENTLEMEN WHO WANT TO sell goods in a store.

WANTED TO RENT. WANTED TO RENT—BY A RESPONSIBLE PARTY, 5 or 6-room cottage.

WANTED TO RENT—PIANO, WITH POSIBILITY of purchase.

WANTED MISCELLANEOUS. WANTED TO BUY A SMALL, WELL-IMPROVED ranch.

WANTED—2 FLOOR SHOWCASES, ABOUT 3 feet 6 inches high.

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FOR RENT. HOUSEKEEPING ROOMS. FIRST ST., 231 1/2—HOUSEKEEPING ROOMS; front sitting, completely furnished.

FOR RENT—SECOND-STORY, CONSISTING OF 14 rooms, cor. 15th and Glisan.

TWELFTH ST., 167—LOWER FLOOR OF A building, furnished complete.

PARK ST., 51, NORTH—FURNISHED ROOMS for housekeeping; good location.

FIRST AND COLUMBIA STS.—SUITE, FURNISHED for housekeeping.

TWELFTH ST., 235, COR. MAIN—2 PLEASANT furnished rooms.

EAST ANKENY ST., 408, BETWEEN EIGHTH and Ninth—Two or three furnished housekeeping rooms.

JEFFERSON ST., 294—FURNISHED HOUSEKEEPING ROOMS, en suite or single.

SIXTH ST., 24—FURNISHED AND UNFURNISHED ROOMS, for housekeeping.

TWELFTH ST., 170—ROOMS, EN SUITE OR single, with furnished kitchen.

FIRST 37 1/2—NEWLY FURNISHED OR UNFURNISHED ROOMS.

SIXTH ST., 233, COR. MADISON—HOUSEKEEPING ROOMS, all conveniences.

JEFFERSON ST., 408—NICELY FURNISHED front sitting room.

BURNING ST., 421, COR. 10TH—WELL-FURNISHED rooms, with housekeeping privileges.

FOURTEENTH ST., 228—3 OR 4 ROOMS, FOR housekeeping, convenient and cheap.

WASHINGTON ST., 475, COR. 14TH—FURNISHED housekeeping rooms.

EAST NINTH ST., 200—FIVE FURNISHED rooms, for housekeeping.

FOR RENT—700 MONTGOMERY ST.—A FURNISHED house of 7 rooms.

FOR RENT—NEW 7-ROOMED HOUSE, ALL modern improvements.

FOR RENT—3 ROOM HOUSE, 571 SEVENTH and 10th, near 10th.

FOR RENT—2 ROOM HOUSE, 248 GRAND, INQUIRE AT 200 Grand.

FOR RENT—5 ROOM HOUSE, 254 LINCOLN, 5-room house, 254 Lincoln.

FOR RENT—5 LOVELY ROOMS, ALL modern improvements.

FOR RENT—3 ROOM HOUSE, 571 SEVENTH and 10th, near 10th.

FOR RENT—FLAT OF 6 ROOMS, ON FIRST floor, hot and cold water.

FOR RENT—PIVE-ROOM COTTAGE, 150 50; Burnside, between Fifth and Sixth.

FOR RENT—NEW 7-ROOMED HOUSE, ALL modern improvements.

SPECIAL NOTICES. BELTING. WANTED—ALL USERS OF LEATHER BELTING to know that they can have their old belts repaired.

BRASSWORKS. Francis Bros.—Brass castings and finished work made to order.

IRON WORKS. PACIFIC IRON WORKS—HEINKE & CO., Cor. 21 and D sts.

PATENTS. INVENTIONS QUICKLY PATENTED AND sold, expert services.

ROOFING. B. F. Sheffer & Co., felt, composition and gravel roofing.

STOCKHOLDERS MEETING—THE REGULAR annual meeting of the stockholders of the Northwest Fire & Marine Insurance Company.

NOTICE—THE ANNUAL STOCKHOLDERS MEETING of the Chamber of Commerce of Portland, Or.

STOCKHOLDERS MEETING—THE ANNUAL meeting of the stockholders of the Portland Exposition Building.

SIGN PAINTERS. Jess Waddell, successor to Berger & Waddell.

STORAGE OF ANY DESCRIPTION CAN BE had reasonably at Pacific dock.

MISCELLANEOUS. TO WHOM IT MAY CONCERN—THE MULTY-tenanted and well-known business property.

UMBRELLAS MADE, repaired and recovered. Meredith, 163 1/2, near Morrison.

MONEY TO LOAN. MONEY TO LOAN—LONG OR SHORT-TERM loans, on mortgage.

MONEY TO LOAN ON SHORT TIME ON ALL kinds of security.

BONDS AND WARRANTS OF OREGON, Washington and Idaho bought and sold.

MONEY LOANED ON FURNITURE, PIANOS, salaries, real estate, or any good securities.

MONEY FOR ABSTRACTS, on approved security; notes and mortgages discounted.

IMMEDIATE LOANS ON CHATTELS, REAL estate and other securities.

MONEY LOANED; certificates of the Oregon, Washington and Idaho banks.

MONEY TO LOAN—\$2000 ON CITY PROPERTY, West Side, for two or three years.

MONEY TO LOAN—ON CHATTELS OR ANY satisfactory security.

\$20 TO \$500 TO LOAN ON FURNITURE OR collateral, H. Mann & Co., room 66 The Dakota.

THIRTY AND NINETY-DAY LOANS; SUMS to suit, W. H. Nunn, room 11 Washington Building.

\$500 TO LOAN ON WEST SIDE CENTRAL Oregon Bank, 100 years.

LIVE INSURANCE POLICIES PURCHASED at highest price.

MONEY TO LOAN ON CHATTELS OR ANY good security.

\$500 TO \$1000 ON CITY PROPERTY, 8 AND 10 per cent.

TRAVELER'S GUIDE. Table with columns: DATE, DEPT. FTH AND 1ST, ARRIVE. Lists train schedules for various routes.

COLUMBIA RIVER ROUTE. Table with columns: DATE, DEPT. FTH AND 1ST, ARRIVE. Lists train schedules for the Columbia River route.

WILLAMETTE RIVER ROUTE. Table with columns: DATE, DEPT. FTH AND 1ST, ARRIVE. Lists train schedules for the Willamette River route.

YAMHILL RIVER ROUTE. Table with columns: DATE, DEPT. FTH AND 1ST, ARRIVE. Lists train schedules for the Yamhill River route.

SNAKE RIVER ROUTE. Table with columns: DATE, DEPT. FTH AND 1ST, ARRIVE. Lists train schedules for the Snake River route.

OCEAN ROUTE. Table with columns: DATE, DEPT. FTH AND 1ST, ARRIVE. Lists ship schedules for the ocean route.

WORLD'S FIFTH LANE. Table with columns: DATE, DEPT. FTH AND 1ST, ARRIVE. Lists ship schedules for the World's Fifth Lane.

THROUGH TICKETS THROUGH TICKETS TO THE EAST AND SOUTH-EAST. Lists various travel packages.

CITY TICKET OFFICE, 153 THIRD ST., COR. ALDER, PORTLAND. Lists ticket information.

STEAMERS. OCEANIC STEAMSHIP COMPANY—Oceania, Pacific, etc. Lists steamship schedules.

PERSONAL. GENTLEMAN OF 35 DESIRES THE ACQUAINTANCE of a refined young lady.