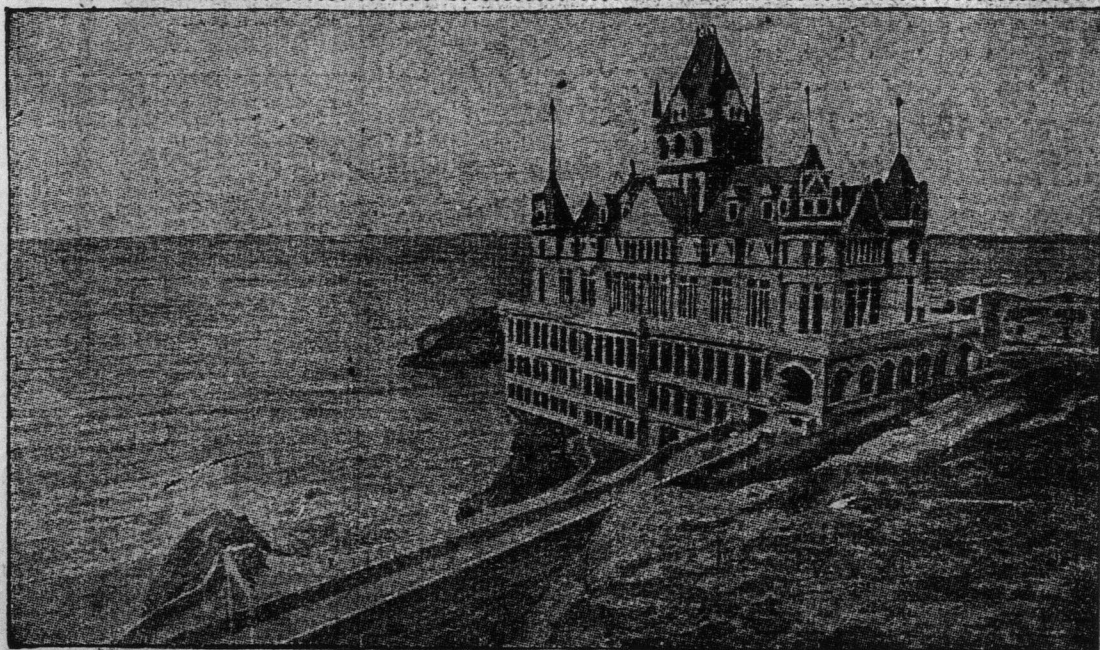


THE RECENT EARTHQUAKE AT SAN FRANCISCO



Ferry Terminal
Panoramic view of affected district.

Palace and Grand Hotel The Chronicle The Call The Examiner.



THE CLIFF HOUSE, SAN FRANCISCO.

THE SEISMOGRAPH.

The seismograph at Washington is a horizontal pendulum made by Bosch of Strassburg, and designed after the models described by Professor Omori.

of Japan. The instrument has two pendulums, which produce a record of the north and south and east and west components of horizontal motion. The illustration only shows one pendulum, and the trace is a north and south component.

The record of the earth's movement is traced by a fine steel point or stylus on a sheet of smoked paper wrapped round the large cylinder; in order that friction may be reduced as far as

practicable at the tracing point, the coating of soot is made relatively thin and paper with a highly glazed surface is employed. The recording cylinder is driven by clockwork at the rate of one revolution per hour, and the axis at one end is so constructed as to shift the cylinder endwise as it revolves. The steel stylus therefore traces a spiral line on the drum, thus separating the successive portions of the record.

The tracing index magnifies the movement of the earth about ten times. An electric high grade clock closes a circuit momentarily, once each minute, and causes a finger to mark a time stroke each minute on the trace.

The above description has been compiled from the American Weather Review. The Boschomont seismograph at the weather Bureau, Washington, which registered the great San Francisco earthquake, of which the above is a trace, reports that the quake began at 8 hours, 19 minutes, 20 seconds, 75th meridian standard time. The stronger motion began at 8.25 a.m., that is about five minutes after the first imperceptible tremors. The recording pen was carried entirely off the record sheet by the violence of the motion from 8.32 to 8.35 a.m. After the latter time the motion gradually diminished over a longer period of time, but did not entirely cease until about 11.35 p.m. The vibratory motion of the ground at Washington was really a comparatively slow and deliberate motion, each back and forth movement taking 15 to 20 seconds of time. The largest movement of the ground registered before the pen went off the sheet amounted to about four tenths of an inch, or a to and fro movement nearly one-half inch in the surface of the earth in that city.

It will be seen that the Washington instrument differs considerably from the seismograph known as the Milne type, now in use at Victoria and throughout the world. The Milne type records the movement of the horizontal pendulum on photographic paper which is duly passed by clockwork under the rays of light from a lamp. I hope shortly to reproduce the records of this type of instrument as they were obtained both in this city and at Toronto.

E. BAYNES REED.

OLD TIMER FROZEN TO DEATH.
Kept a Diary in Which His Last Entries Tell the Story.

Eric Erickson, a native of Kristiansund, Norway, and an old timer of the Koyukuk, was frozen to death on the trail between Red Mountain and Bergman, Alaska, about January 19.

He left Batties alone in early winter under a contract to cut wood above Red Mountain for the steamers of the V. C. Co., but took in barely sufficient provisions to last him till the expiration of his work.

The diary, which he had kept up to the last day of his stay in the wood-chopping camp, shows that the exceedingly cold spell that visited Alaska about that time had prevented his return until forced by the want of food to hit the trail.

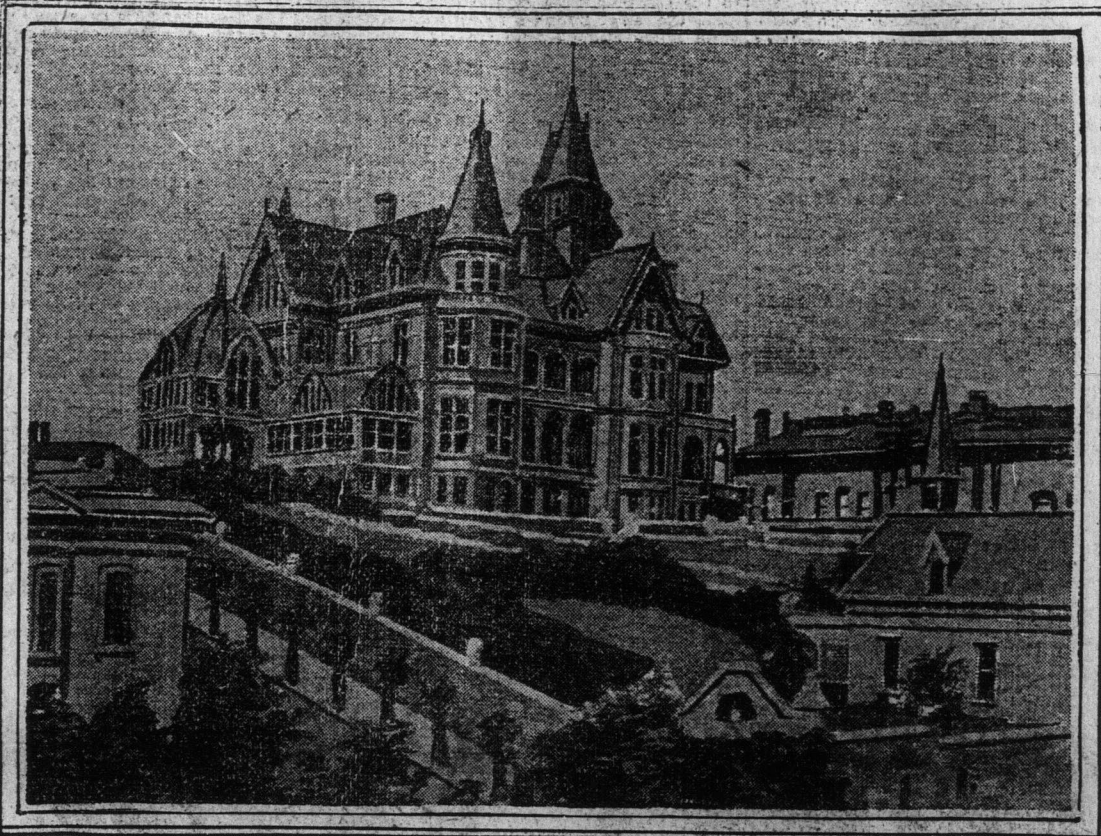
The two last entries are:
"January 12—Cold, about 50 below, if not more. My breath is cracking. Heavy wind blowing down river."
"Twelve o'clock—The same, cold and clear."

"Five o'clock—Clear, cold, and blowing like a son of a gun. Tomorrow I must go, after waiting thirteen days, if not more. My breath is cracking. Heavy wind blowing down river."

My breath is cracking. No grub. All aboard for Bergman. I think I'll get there."

The Indian who found Erickson's body says that he was in a kneeling posture, that he held his fingers to his lips as though attempting to breathe departed life to them, and that his trail showed that he had been traveling in a circle.

Archdeacon Stuck and Edward I. Knapp on their way to the Arctic stopped to give poor Erickson Christian burial at Bergman.



The Hopkins Art Institute, former residence of Mark Hopkins, totally destroyed by the recent earthquake.

THIS DATE IN HISTORY.

- April 23, 1304—Thomas Cooper, returned English prelate, died.
- 1643—Earl of Newcastle defeated Lord Fairfax at battle of Brunan Moor.
- 1670—Pope Clement X. died.
- 1676—Auchin A. de Ruyter, famous Dutch admiral, died.
- 1688—Frederick William, elector of Brandenburg, died.
- 1710—Adoption of Pine Tree flag by Great and General Court of Massachusetts.
- 1792—Matthew Vassar, founder of Vassar college, born.
- 1813—U. S. frigate Essex captured British sloop Adventure, Policy and George.
- 1827—Rufus King, American statesman, died.
- 1842—British parliament passed new Corn Law.
- 1851—C. C. Peppys, earl of Cottenham, died.
- 1854—Marquis of Anglesey died. Born 1768.
- 1856—John Wilson, celebrated landscape and marine painter, died.
- 1860—The Austrian army crossed the Ticino.
- 1891—Tornado destroyed the town of Claco, Texas.
- 1901—The Delannais ministry in Greece resigned.
- 1905—H. W. Bowen, U. S. minister to Venezuela, recalled.

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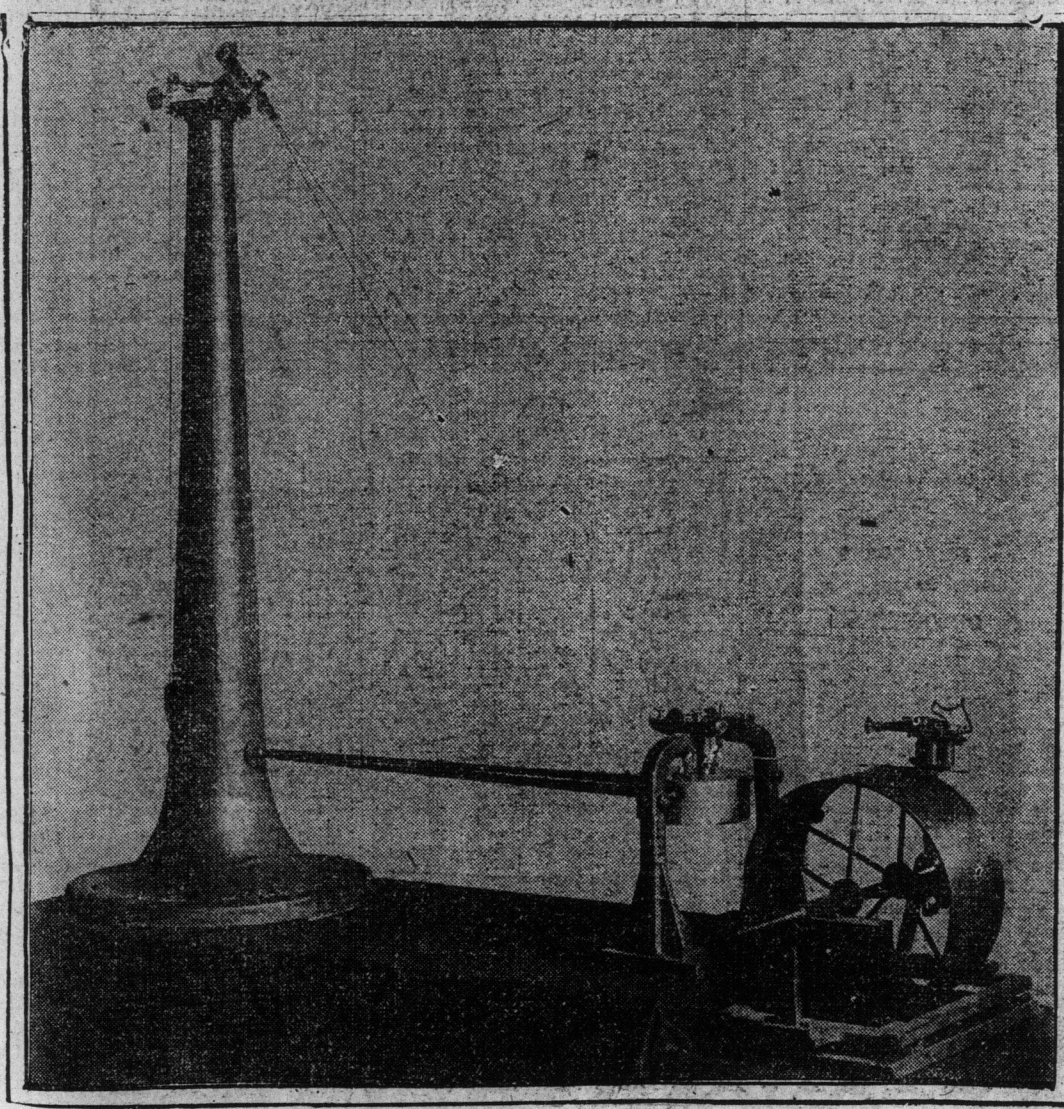
THE CASE WITH HIM.

Mrs. Henpeck—They can't punish bigamy too severely. No one should have any sympathy for the man who takes one wife too many.

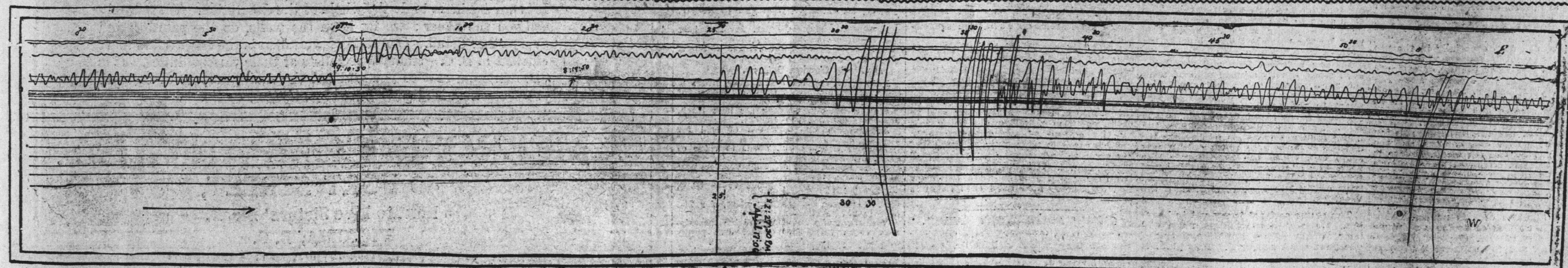
Mr. Henpeck—The idea, Maria! Do you think I should be sent to jail?—Philadelphia Press.



Looking Up Montgomery Street from Market.



The Seismograph.



Earthquake record taken at the weather bureau.