AL SCIENTIST

pier Denison of Meteorolo-I Office Describes Causes of the Upheaval.

AN INTERESTING STATEMENT

ng of Planet and Other uses Acting Conjointly Responsible for Quake,

(From Friday's Daily.) F. Napier Denison, of the meteoral department, at the request of a st reporter, yesterday made an in-ing statement outlining the cause thquakes. The well known local ist is fitted by considerable study nish adequate information concern-nich upheavals as that which has a year on the Isle of Wight study-ith Prof. Milne, the noted seismic, who invented the wonderful graph, one of which instruments ed the recent earthquake in this nd Mr. Denison also made a provisit to Vesuvius and examined erater and those, of neighboring wes, having many opportunities to his chosen subject with the note! savants who are making inves-ns in this locality. aking of the cause of earthquakes day, Mr. Denison said:

cause of this most dreaded force are is still under the careful coun of many able experts, and of these, from a British point of is Prof. Milne, of the Isle of Though much remains in mysegarding the forces ever active be-the earth's surface, some light has brown upon the subject which now particular interest to all living on actific coast. There are different of earth movements. The first nsider is the steady rising of por-of the earth's crust, as is shown as the Andes, which contain upon summits fossil remains of marine till existing in the adjacent ocean, he same time other portions are same time other portions are year by year. The coal meas-vere probably formed during such

movement of greatest interest an 'earthquake' is caused by the fracture of the earth's crust

Enormous Upheaving nding strain from below, which in cases occur in districts where ains are forming and indicate lines ains are forming and indicate inte-kiness near the surface. The rock composing the earth's crust is and responds to the thrusting from below until its limit of re-ce is reached, and a sudden break ult' is made which sets up huge waves which near to the point of waves which near to the point of a cause buildings to totter and fall, e earth waves decrease in destructorce as they spread out, but in cases are transmitted to all secon the globe, where they are red upon delicate seismographs simothe one installed here. here are several causes for these es which probably act conjointly, is that our

Planet Is Cooling straction therefore taking place g or wrinkling of the surface 18 pp. These folds occur along the of greatest weakness which corre-t to the growth of mountains. in ranges are usually situated ontinental coasts, and in them es are to be found. ly occur at the same time, but in cases no connection exists. Both ena are probably actuated by a force, for we know volcanic force, for we know volcanions are mainly due to the explo

es as steam.

is thought that vast quantities of Imprisoned Water

n the earth's crust, and under enus heat and pressure is a factor in ng great quakes where the earth's is greatest and in some justances is weakest, and in some instances the surface in the form of vol-s. This theory is borne out by the hat volcances and mountain ranges cent origin are situated not only the sea, but where great ocean s are not far distant. Japan and uscarora Deep,' off the east coast, instance, also in the Martinique

rce of super-heater water which

The Chief Regions ismic disturbances extend in zones, spreads northward from the islands Java through Japan and across leutian islands, thence southward Aleutian islands, thence southward gh Alaska and again becomes proced in Mexico, and southward ghout the Andes. Another zone a appears to be diminishing in enextends from Iceland through the is off the coasts of Europe and a in the Atlantic. These zones are ally connected by a belt of seismic nextending about the equator, and the present time is most pronounced ighout the West Indies, Central rica and Mexico, which is not far in from the present scene of awful uction."

ES FOR SMALL SECTION OF CITY

w York, April 19.—The officials of w York, April 19.—The officials of Postal Telegraph company in this at 8:35, received the following mestrom Mr. Storer, the superintend of their services in San Francisco: fire is still going on and will probonsume the whole city except those ts situated between the Golden Gate and Webster street, in which neighood there is water, and where the department can work with some ce of success."

NAS SUFFERS TWO

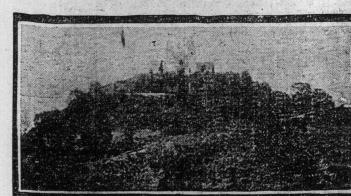
DISTINCT SHOCKS hone message to the Morning Press Salinas, Cal., states that that town ed from two distinct earthquake is shortly after 3 o'clock this after-As the message was coming over wire still another shock was felt in city. Although today's earthquakes done very little damage in Salinas, anabitants are greatly disturbed and a repetition of Wednesday's disaster h did much damage to property.

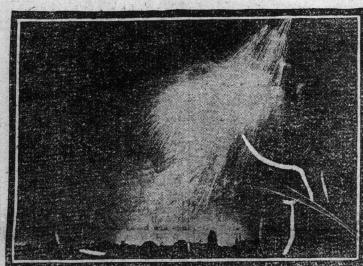


alone.

The value of the crop of vegetables is much less than that of flowers, but still there are 5,000,000 square feet of glass devoted to this industry. Under favorable conditions this will bring to the owner an rage of fifty cents per square foot, king the value of the total crop about





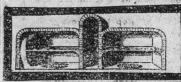


WITH improved photography it is not difficult to take pictures of night fireworks, though for the production of a good picture many elements are to be considered. First one must consider the atmospheric conditions, but on a perfectly clear and dry night the time is most favorable. This state must have existed when this photograph was taken, for the mesults are exceptionally clear and well marked. A battery of great Roman candles is erupting on the left; on the right a battery of magnesium Roman candles.

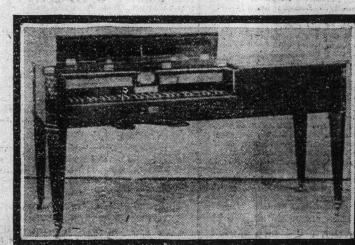


The Chinese Governor of the province of Hailungklang, in Northern Manchurla, having reported to Pekih that the Taotal in charge of the mines in his province had handed over possession of a number to the Russians, the Taotal was arrested and sent down to be dealt with by the Viceroy Yuan Shikal. The Russians meantime require that the Chinese government shall recognize their title to the mines so acquired.

An Incubator 4,000 Years Old.







POPULAR plano firm has come upon the idea of disposing of at special sale the planos used by great operations aduping their American seasons. Of course, there is a rare sentimental interest in playing upon the keyboard over which the fingers of your favorite diva or your worshipped tenor have strayed. And it might be that in time all instruments of this class would have to be authenti-

The Rev. Henry Wunder, pastor of St. Paul's Evangelical Lutheran Church, of Chicago, has just concluded fifty-four years as pastor of that church, which is a longer time than any other Chicago minister has been connected with a congregation. In his pastorate he has married and christened more than twenty thousand persons.

***** A Sword Fish Prowess



