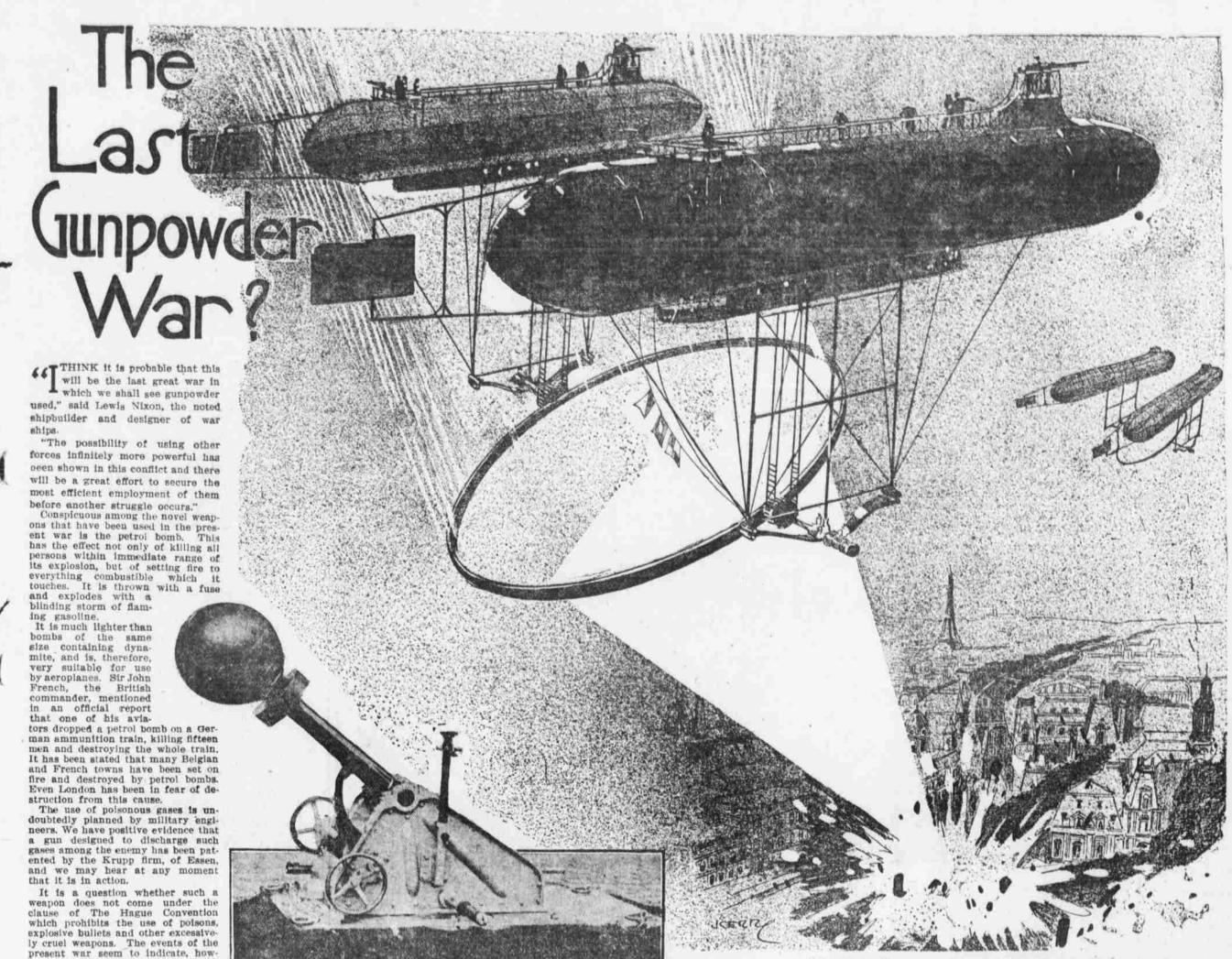
## THE OMAHA SUNDAY BEE MAGAZINE PAGE



"Airships will carry vast lenses that will concentrate the rays of the sun, The New Gun That Discharges Poisonous Gases, Patented by the Krupps, of Germany. withering and destroying everything beneath them."

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soldlers. The poison gun has been patented in the United States by Karl Wieser a German subject residing at Bredeney, Germany. He states in his application that he has assigned his rights to the Krupp company.

The shell containing the poisonous

ever, that not much attention will be

paid to the humanitarian provisions

of The Hague Convention. It may be argued that the use of polsons was

forbidden for the protection of civilians and neutrals, and that the pro-

vision does not apply to a gun throw-

ing poisonous gases at the enemy's

gases is a great globe, which remains outside the muzzle of the gun. A shaft attached to the globe enters the gun and separates from the globe when it is fired. The globe is said to be capable of suffocating a thousand men by the gases which it emits when it explodes. The technical description of the invention says:

"The object is, in the present in-vention, reached by giving the part of the shaft whereon the weight slides a smaller dimension than that of the bore of the gun, and by supplying the shaft with an abutment or stop at the rear of this small diameter, which stop will conform with the diameter of the bore of the gun. And the smaller part of the shaft passes through a hole of the same diameter in the weight, so that, with the assistance of centring faces on the weight and on the gun, the former will be in such a position that its axis will coincide with that of the bore of the gun.'

The invention is a three-piece device—the shaft, which goes into the bore of the gun; the shell, and a weight which is attached both to the shaft and the gun and joins them together. When the shaft is fired, the weight retards its progress, and through that means detaches itself and the shaft from the shell, which continues in its flight.

. One great object of the military inventors is the direct use of the power of the sun for purposes of destruction. They are planning to furnish airships with lenses and mirrors, by means of which the sun's rays may concentrated on the opponent's forts, magazines and encampments. Imagine the effect of such a titanic force burning, withering, annihilating

everything over which it passes! No gun can reach it, no defence is possible. Fortresses explode, cities burn up and men shrivel into nothingness. Such a triumph of destruction is an ancient dream of mankind, just as flying was. According to tradi-

tion, Archimedes, the Greek inventor, destroyed the ships of Marcellus which were attacking Syracuse in 214 B. C. by turning the sun's rays on them by means of concentric mirrors. idea. claims to have discovered a method

Signor Ulivi, an Italian inventor, of controlling the infra-red rays of

'These bombs will spread poisonous gases over an area of many square miles, in which no human being can live."

tions before the British Admiralty and the Italian army authorities. There is some doubt about the efficacy of his invention, but there is no doubt that it is based on a scientific

Ulivi is said to have exploded a submarine mine under the River Arno from a distance of five miles. the spectrum so that they will ignite He grinds out the rays from what ap-any explosive or combustible in a pears to be a static electric machine metal case. He has given demonstra-and holds a wireless telephone to

his ear, which tells him when his rays have struck a distant metallic object. He asserts that his invention will cause the explosion of all ammunition, torpedoes, bombs, war-ships, gasometers, etc. It will wreck all iron steamships, railroad locome tives and cars, iron bridges and all other metallic constructions.

Signor Ulivi's invention bears a re semblance to the methods used by the Martians in their invasion of the

earth, as described by H. G. Wells. These monstrous, octopus-like creatures controlled heat rays with which they with ered and devastated everything that opposed them. They were not stopped until an earthly inventor infected them with disease microbes which they had never

known on Mars. This use of microbes, by the way, would be contrary to the rules

of The Hague Convention, but probably

the Martians would be counted outside the pale of humanity.
Wells has suggested another scientific

weapon which would cause world-wide devastation and so make war impossible. He assumes that we shall discover the secret of atomic energy, a force which we can see at work in radium. The atomic bomb releases the energy of matter and causes everything it touches to explode.

Science is Now Creating Weapons Far More Deadly, That Will Annihilate Life Throughout Whole Countries in **Future** 

"Never before in the history of warfare had there been a continuing explosive; indeed, up to the middle of the twentieth century the only explosives known were combustibles whose explosiveness was due entirely to their instantaneousness; and these atomic bombs which science burst upon the world that night were strange even to the men who used them. Those used by the Allies were lumps of pure carolinum, painted on the outside with unoxidized cydona tor inducive enclosed hermetically in a case of membranium. A little celstud between the handles by which the bomb was lifted was arranged so as to be easily torn off and admit air to the inducive, which at once became active and set up radio-activity in the outer layer of the carolinum sphere. This liberated fresh inducive, and so in a few minutes the whole bomb was blazing con-

tinual explosion.

"Such was the crowning triumph of military science, the ultimate explosive, that was to give the 'decisive

It is certain that there are infinite powers of destruction in the wireless waves with which we are partly familiar. A wireless generating plant raised to several thousand times the power now employed will be able to destroy life and property at a distance of a thousand miles or more.

Another novel implement of destruction will be an enormous flywheel armed with scythe-like blades, which will cut down every being in their path. Everybody famillar with machinery knows the ter-rific power of a heavy flywheel in motion. It is proposed that the wheels shall be carried in large aeroplanes and dirigible balloons. The cutting blades will be arranged at an angle so that they will increase the revolutions of the wheel as it falls through the air.

The man in the machine will drop

the wheel over a force of the enemy and then, after gaining terrific momentum, it will go churning through their bodies with its long, curved knives. In this way a trench could be cleared of life or a whole encampment swept away.

All these methods of slaughter will, it is hoped, hasten the day when no nation will dare to go to war because it will threaten the very existence of the human race.

"Growing Pains" and "Tennis Elbow" Due to Decayed Teeth

ECENT medical discoveries showing the close relationship between decayed teeth and rheumatism, through the medium of germs and toxins flowing into the digestive tract from pus sacs in the diseased teeth and gums, are familiar to readers of this newspaper. The further medical science inquires into the matter the more it is inclined to attribute many other stubborn ills of the human body to the same cause-defective teeth and polson-discharging pustules

These discoveries have added new terrors to pyorrhoea, commonly called Rigg's Disease, in which the gums fall away from the roots of the teeth and the whole area becomes a breeding ground of germs seriously affecting the general health, owing to the impossibility of keeping them out of the stomach and intestines.

In an article contributed to the London Lancet, of recent date, the writer-a laboratory experimentor along these lines -attributes that mystery of childhood called "growing pains," to this same cause. These pains in the bones of the arms and legs, he explains, are always associated with an infected condition of the intestines, as is rheumatism. But the germs -stre-'pcocci-which are responsible for this condition do not originate in the intestines, as formerly was the theory, but in the decayed teeth and diseased gums of the victim. 'Growing pains' occur in cases where the physiological output of young people, to meet the tyrannical demands of growth, is at its highest. Their resistance to these germs is therefore at its lowest. Stubborn pains in the bony structure

are manifestations of those germ-toxins in the circulation. It was natural that formerly this class of disturbancesfollowing the general acceptance of the germ theory of disease -should be attributed to the activity of germs originating in the intestines-the waste pipes of the body where all sorts of microbes and poisons are naturally expected to exist. Suspicion that this theory was erroneous grew out of the fact that sterilization of the entire alimentary canal only temporarily aliayed rheumatic and other symptoms.

Experiments proved that these germs had a source higher up, and this source was finally discovered in the mouth that supplied a steady flow of them from tooth cavities and nus sacs in the gums. So it was useless to continue drastic antiseptic treatment of the intestines while the mouth kept up its

supply of the poisonous material. Among the many diseases for which bad teeth are now neld responsible are: Chronic inflamation of the pharynx, disease of the middle ear, mastolditis, gastritis, gastric ulcer, anaemia, gout, neuritis, even "tennis elbow" and writers' and telegraphers' cramp. Medical reports show that "tennis el-bow" disappeared when the fangs of a dead tooth were

rendered aseptic. The explanation is that the poisons generated in the digestive tract by these germs of dental origin set up chronic inflamation of the connective tissues between the bundles of nerve cells in the overworked area-just as they cause inflammations resulting in children's "growing pains" when the child's nutritive processes are overworked to build up a larger

The disquieting feature of the whole matter is that teeth and gums which appear to be perfectly healthy yet may be breeders of this mischievous germ. On this tpoc the Lancet writer says:

"Not once but many times recently I have found this organism about the fangs of teeth which, apparently sound, showed on extraction denuded periosteum and sepsis of the alveolar cavity communicating with pockets about the neck of the tooth.

"It is not, however, to this particular class of dental cases that I wish to draw the attention of your readers, but rather to a series of cases of less evident virulence which ought to be the study of every practitioner-those cases where at and about the tips of the teeth, themselves frequently healthy in appearance, often stopped or crowned, the streptococcus salivarius is actively secreting a toxin which it pours in a steady stream into the area around the fangs. This organism does not cause pus formation. It is found in small fibrous sacs attached to the periodontal membrane, and its action seems to be formative rather than destructive. The effects of its growth are shown wherever connective or fibrous tissues are in a state of enhanced activity or where such structures have been injured or overstrained."

