

BRINE WELLS BRING FORTUNE TO A CITY

Midland, Mich., Above Vast Subterranean Rivers of Salt Solution.

HAS A THOUSAND USES Magnesium Alloy Developed as Triumph of Automotive Industry.

Detroit, Sept. 10.—The town of Midland drowns in the Michigan summer heat like a lazy and well fed kitten on a hospitable doorstep, says a writer in the News. Lining the main street are the ever present garages, ice cream saloons, hardware stores, good stores, drug stores. Along the side streets, shaded by old trees, are the comfortable and unpretentious homes.

A Thousand Commodities. It is the salt brine that has given rise to Midland's chemical industry and a plant now internationally known, and from this mysteriously formed fluid come the essences of a thousand commodities—emulsions for photographic plates, medicines invaluable for their curative properties, cements and stucco and floor tiles, chemicals for tanning and engraving and for perfuming milady's handkerchief, for preserving salt and chloroform, caustic soda and solutions for cold storage.

Extraction of Magnesium. In 1916-17, when the Government felt an imperative need for quantities of magnesium for use in rockets and flares, the Dow Chemical Company put its corps of chemists to work to perfect processes by which the magnesium in the brine might best and most speedily be extracted and utilized.

At the collecting station the magnesium bromide is broken up by electrolysis and the bromine used in the manufacture of medicinal bromides.

The next step is the separation of the magnesium chloride brine by chemical treatment and agitation in eleven tanks, or settling vats, thirty to eighty feet in diameter and fourteen to twenty feet in depth.

Since the coefficient of expansion of this magnesium alloy is approximately that of aluminum and higher than that of cast iron, a slight clearance, usually .006 of an inch, is allowed for installation.

Platons of the material have been run as high as 35,000 miles "under load" that is, under stress and strain equivalent to that given a piston running night and day in a motor car going at a rate of thirty miles an hour.

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KING BORIS'S MOTTO IS 'PEACE AND WORK'

Bulgarian Monarch Speaks English and Has Studied American Ways.

BALKANS TIRED OF WAR Tells of Gift of College Site and Gratitude to People in United States.

Sofia, Bulgaria, Sept. 10.—King Boris of Bulgaria declares that "peace and work" is the motto of his reign and a promise of the future prosperity of this country.

"Until now neither I nor my people have had an adequate opportunity for expressing their feelings of gratitude to the great American nation."

Its History Connected With the American Revolution. WASHINGTON, Sept. 10.—To mark the 50th anniversary of known data in connection with the "Witness Tree" of the Donegal Presbyterian Church of Lancaster county, Pennsylvania, the American Forestry Association announces that the tree is given a place in "Trees' Hall of Fame."

King Boris, who speaks English fluently, has made a deep study of America and American conditions. He heard with pleasure that the city of New York intended to send him a work dealing with the birds and flowers of New York State.

"It appears to me that the American nation is taking a growing interest in Balkan questions since the war, not only from an economical point of view, on account of the large American enterprises here, but from a political one too," continued the young monarch.

"The Bulgarian Parliament felt it a privilege to make a gift of one of the best sites near Sofia for the erection of an American college."

"Neighbors peoples are storm tossed," he said to the Associated Press. "Echoes of revolution and discontent sound faintly across our frontiers and reach us in our wheat fields where our peasants, absorbed in their tasks, turn a deaf ear to preachings of war and adventure. They are tired of war. I have seen war myself and learned to hate it."

"We ask for a small army, but it is only to protect the country from the disorders which outsiders are seeking to introduce. With such brilliant prospects ahead of Balkan pacification and development it is a mystery to us how people can say, as they do abroad, that we are at odds with our neighbors, are about to attack Greece or are organizing bands to provoke strife beyond our borders."

STATUE OF MADONNA 5,000 FEET IN AIR

15,000 Climb Italian Mountain to Replace War Damaged Pedestal.

WINDING ROAD, 18 MILES Orlando Makes Speech at Re-consecration, Telling of Heroes' Bravery.

MONTE GRAPPA, Italy, Sept. 10.—This mountain, 5,000 feet high amid the rugged crags of the Alps, has just been the scene of a vast pilgrimage of 15,000 veterans of the world war, women and children, who for days climbed to reach the summit, where the statue of a Madonna and child was re-consecrated in memory of the Italian heroes who fought in these mountain fastnesses.

The road to the summit is eighteen miles in length and winds through passes, skirts the edge of bottomless ravines and rises finally to giddy heights where to the south one sees the plains of the Isomae to the sea, to the north continue chains of towering Alps.

The Madonna which has now taken her place on the summit was placed there in 1910 by Cardinal Serio, patriarch of Venice. In May, 1918, while the stronghold was in possession of the Italians, an Austrian bomb struck the pedestal on which the statue rested.

For the ceremony of replacing the Madonna, which has just taken place, the king was represented by the Duke of Bergamo, who delivered an address on the sacrifices made by the Italian troops in the defense of Grappa.

Gen. Giardino, known as the "Defender of Grappa," received a gold medal from the city of Treviso. While the ceremonies were performed a huge Italian dirigible hovered over the mountain heights signalling to the mountain villagers. It also carried a message to Grappa from the city of Venice, which read as follows: "The bulwark of the air salutes the bulwark of the mountains."

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