

summer. This explosion, called the Sedan shot, is shown in Fig. 1A, and the hole (1200 feet in diameter, 300 feet deep) in Fig. 1B. A sizable harbor can be blasted for an amount of money between \$1 million and \$10 million. This means that we can make a harbor for the kind of money we used to pay merely to equip a harbor.

The obvious difficulty in proceeding with this plan is that in places devoid of population no harbors are needed, while in populated areas no explosions are tolerated. There will be, however, cases where the creation of the harbor itself will later attract the people. The possibility of forming pairs of harbors on the sides of channels of adjacent islands of the Hawaiian chain has been discussed. It is remarkable that in these islands originally populated by the most daring of navigators there is at present a minimal flow of sea traffic. The type of harbors we have mentioned could produce greatly increased traffic and commerce throughout most of the island chain, but unfortunately the Hawaiians are reluctant to be the first to try the experiment.

Another possibility would be a harbor on the Katalla River. The harbor is shown in Fig. 2, together with the position of extensive coal deposits. As seen in Fig. 3 (which shows all of Alaska), the harbor is situated in an ice-free region of the ocean. At the present time the nearest harbor facility is at the town of Cordova (see Fig. 2), which is separated from the coal fields by the broad and shallow Copper river as well as by a glacier or moraine across which transportation is impracticable.\* The question whether the coal fields can be mined in an economic fashion even if a harbor were available is not completely decided, but should this project turn out to be feasible, the

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\*A railroad in this region had been constructed but could not be maintained.