age Two

GREAT ARTIFICIAL HABBOR.

Naval Port at Dover is Largest Area of Open Sea Ever Inclosed.

The pening of Dover nava! port mark: " he completion of the gre test artificial harbor ever bullt estir * in the open sea. The scheme inclining an extension of the admiralty prer for 2,000 feet, the formation of reclams tion works for the protection of the shore at the eastern end of Dover town extending in the direction of St. Margaret's bay for 3,900 feet, a protecting arm extending from the eastern end of the reclamation for a distance of 2,900 feet into the open sea and an island breakwater approximately parallal with the shore line end extending from the end of the admiralty pier extension on the west to the end of the easterly pier already referred to with wide entrance openings between the heads of the several break waters. If we include the eighty acres which constitute the present commental harbor there is inclosed by these works a total area at low water of 690 acres of deep water harbor capable of floating the largest of modern battleships and ocean liners. This is the fargest area of the open sea even inclosed by solid masonry protecting works

Although that portion of the inclosing breakwaters which is visible at high water gives an impression of their great length and of the wide e: tent of the harbor, it is a fact that the visible masonry represents only small proportion of the work actually done. The total length of the set works is two and a half miles, two miles of which are in exceptionally deep water. Thus the 2,000 foot extension of the admiralty pier measures from the top of the parapet to the foundation nearly 100 feet in height, and the eastern pier has a total height above foundations of eighty-seven feet. The total width at the base of the piers is over fifty feet and at the top forty-seven feet six inches.

The fears which have been orpress-ed that this, like other harbors won from the open sea, might be subjected to shealing up by drifting sand have not been verified, the depth remaining practically constant.-Scientific American.

FROZE A SOAP BUBBLE.

Then B--ke It In Pieces and Floated shem on Liquid Air.

THE DISPA CH

the Road

(Fig. 1). The line from A to B should

be just 1/8 inch less than the circum-

glass, properly shaped, can be pur-

A notch is cut in the leather on

a line with the line A to B to receive

the glass, and the ends at A and B

are then sewed togther with the glass

caught in the notch so as to be shaped

The two pieces are fastened together

with a thong or a piece of wire after

being "fitted to the eye. The head

piece to hold the goggles in place is

HAY FOR SASKATCHEWAN

Best Seed Mixtures and Methods in

South Half

perimental Farm at Indian Head. Sask., writes as follows of hay crops

in Southern Saskatchewan: We get

best results here from a mixture of

eight pounds of Western rye grass.

four pounds alfalfa and four pounds

red clover, sown at the rate of 16

pounds per acre on well prepared

summerfallow, preferably without a nurse crop. Occasionally, it is desir-

ous to use a nurse crop with the ob-

Superintendent Gibson of the Ex-

when finished, as in Figure 2.

made of silk elastic.

chased cheaply from any optician.

ors rat out o provisions they literally **GOGGLES FOR DRIVERS** eat their curtain rings! The Japanese bamboo bread, so named from Easily and Cheaply Made For Use or its shape, is a somewhat similar product. Olt is sliced and sold in strings. One of the strangest of biscuits comes Goggles are mighty used things from Russia. It is known as fit-theto have when one does much riving. mouth biscuit, and besides being automobiling or riding on motorcycles. mach appreciated as a tea biscuit is They are expensive when the right sort are bought-but the right kind guite commonly used by merchants morant of the three r's as a makeare not costly if made at home. shift abacus in counting money-a Two pieces of heavy leather-just lower string of ten serving for coa bit lighter than sole leather-form pecks, and an upper string of the the basis of a pair. Each piece should same number representing roubles. be cut the shape shown in the sketch

BLAME BERRY PICKERS

More picturesque still is its usage as

an extempore ring for marrying poor

peasants with whom the gold ring is

For Forest Fires in Settled Parts of Canada brence of the glass to be used. The

lacking.

Many causes are responsible for Canada's heavy forest fire losses. Some of the erstwhile greatest offenders have come to realize the destruction which their negligence was causing and have developed systematic measures to overcome the loss. Several causes of forest fires have not, however, received sufficient attention. Dr. C. D. Howe states that in the settled areas, one of the chief classes of persons responsible for fires are berry-pickers. Smouldering camp fires, or sparks caused by smoking, fall into dry grass or brush, starting small fires; fanned by a high wind the fires rapidly become uncontrollable, spreading from the berry patches to the larger timber.

It should surely be necessary only to draw the attention of berry-pickers to the destruction which their carelessness or indifference is causing.

Flying with a strong wind, the carrie" pigeon covers 1,000 yards e minute.

The farther the waters of the cceans are from the equator the less walt they contain.

WHITEFISH INDUSTRY

August 16 1916.

Examine Your Printing Supply Letter Heads Note Heads **Bill Heads** Statements Envelopes Tags **Business** Cards Invoices Ladies' & Gents' Calling Cards Wedding Invitations and Announcements Tickets of all Kinds Posters, Handbills, Dodgers

A frozen soap bubble broken in two and floating like au iridescent, transparent eggshell on the surface of a vessel of liquid air was one of the marvels exhibited by Professo. Dewar in a lecture before the Royal institute of Great Britain.

The lecture was upon the subject of atmosphere and the curious effects of intense cold, the liquid air and soap babble being adjuncts introduced to facilitate se'ne explanations.

A few spoonfuls of liquid air were poured into a vessel, and the intense cold caused by evaporation immediately brought on a minature snowstorm in the atmosphere directly above the vessel. A soap bubble was then placed in the freezing stratum. Almost instantly there was a change in the color of the transparent globe, the bubble becoming much darker; the movements of the rainbows film grew slow-T; It contracted somewhat in size, and + little later it froza.

A slight but dexterous movement of the rod upon which the bubble was sus ded broke the latter into two pleces, which fell upon the liquid air and there floated for an hour, gradually access sulating a tiny snowdrift from the almost imperceptible precipitation constantly going on in the freezing atmospherre above.

THE TINY HUMMING BIRD.

In One Species Its Bill Is Nearly as Long as Its Body's

All humming birds, though varying mach-in size and color, exhibit the same 'mm of wing, legs and feet, the wings being strong (considering the small size of the bird), while the legs and feet are remarkably weak and delscate, a clear indication that these lite tle creatures are intended to spend ale most all their time in the air.

In accordance with this we find that shumming birds are never seen on the ground; that even when feeding they seldom trouble themselves to alight but suspend themselves in the air before the flower on whose juices they mean . feed, the rapid vibration of the wirrs causing them to appear like two fa s of filmy gauze and producing at the same time that peculiar humming sound from which these birds derive their popular name.

The beak of most humming birds is long, delicate and slightly curved to enable it to reach the inmost recesses of the trumpet shaped flowers which abound in the tropical regions, but the suppe of the, beak is very variable. pre-sably on account of the particular to ver on which the bird feeds "

In so a instances it is nearly straight, and in "ie species, the sword bill humming bird, it is very nearly as long as the cest of the body .- St. Louis Globe-Democrat

ject of getting hay for feed. In this case oats should be used and and sown at the rate of a bushel and a half per acre. The oats should be cut early and handled as a hay crop. This allows the young grass to make considerable growth before winter sets in. The above rotation is used exclusively in all our rotation work and gives very good satisfaction as a hay and pasture crop.

Very good results might be obtained by seeding grass mixtures on first year stubble after good summerfallow. Of course, in this case, much will depend on the amount of moisture present in the soil and the preparation of the seed bed. The land intended for seeding down should be handled as follows: Plow six inches deep early fall, pack and harrow to form a mulch. As soon as the rush of spring work is over the land should be surface cultivated and a good seed bed prepared. The seed should be sown as early as possible at the rate of about 16 to 20 pounds per acre. In this case no nurse crop should be used as all the moisture will be required for the young growing grass.

For an annual crop, in some parts of Saskatchewan, millets can be grown with good success. However, at Indian Head we have had very little, success with millets. Where they can be grown successfully, we recommend the Hungarian variety. However, for a good sure crop of hay, we recommend a mixture of peas and oats, sown at the rate of two bushels of the former to one of the latter. When cut in the early milk stage, this makes an excellent hay for all classes of live stock.

BREADS CURIOUSLY USED

Strangely Made and Different in Each Country

Every nation has a bread that is typically its own. In one oat flour is used, in another wheat or rice or cassava, and the shape varies from the disc-like Scandinavian hard-tack that has a hole at the centre for convenience in packing them away on poles in the farmhouses to our own plump brown loaves that come out of the oven in the well known form. The bread of the Balkans, curiously made in the form of chains, is sold from the arms and necks of itinerant pedlars. in tent life in Balkania the detached links are often used for fun at quoits, or serve a more useful purpose in suspending temporary curtains and empines. Then when the camp-

Decline of Great Lakes' Harvest is Object Lesson

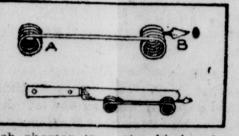
The Dominion Fisheries Branch is concerned chiefly with the production of commercial species, leaving the propagation of game fish largely in the hands of the provincial authorities. While lobsters and whitefish are distributed in much the largest numbers. considerable attention is paid also to Pacific and Atlantic salmon, salmon trout, pickerel and other fish. Except with regard to such marine species as the cod and mackerel, extensive artificial culture and strict regulation of fishing operations are necessary to ensure fisheries against depletion. The history of the whitefish production of the Great Lakes furnishes the best example in Canadian experience of the manner in which a valuable fishery can be either depleted in a very short time or maintained at a high level of production accordingly as artificial culture is neglected or efficiently prosecuted. Smaller fisherles, such as the oyster, shad and sturgeon, are to-day in a deplete! state, while the two most valuable fisheries of the minion, the lobster and Pacific saimon, will require continuous breeding operations on a very extensive scale to maintain their maximum productivity.

POTATO PARER

Knife

Here That Will Fit Any is One

There are many economical housekeepers who weep at the losses they suffer through the improper paring of vegetables and yet insist that the patent parers are not nearly so good for the purpose as the old fashioned knife. Here is a way to fix an ordinary knife so that it becomes a potato parer of the highest order. Secure a length of steel wire and coll Its ends until it makes a length about



inch shorter than the blade of an prdinary table knife, When finished you will have a hard straight plece of ! wire connecting two coils. Push the for removing the eyes from polatoes | ized the early days of the march through Belgium and France, but was

Programmes

Also Carried in Stock Road Taxes, School Taxes **Poor and County Rates** DEEDS, MORTGAGES, BONDS and BILLS of SALE

THE DISPATCH OFFICE

(St. John Globe.)

What Is Coming?

Stanley Washburn, one of the best know correspondents with the Russian forces on the Eastern front, in recent despatches has commented on the per sistency with which hospitals and civilian abodes well behind the lines are peing bombed by the Germans. The persistence of these attacks has forced a conviction that they are a part of the German plan of campaign, the forerupners of more savage, more brutal, more inhuman attacks on the wounded and the non combatant population of the Al lied powers as the war situation be comes more critical. Those familiar with German character and German war methods long ago predicted war fare such as Mr. Washburn now re ports, and there are to be 10und in re cent utterances of German military rul ers and in German press comments rea sons for assuming that similar tactics will soon be tried on the Western front. On the defensive everywhere, and com pelled to give up acre after acre of the ground which was to force acceptance blade of the knife between the coils of Germany's peace terms, the leaders near the straight piece and you have of Germany see the end of their dream a parer. If you care to leave an end of conquest. In the frenzy of baffled of the wire out and can shape it to rage and hate, they are reverting to the a point, you also have a handy tool | warfare of savagery which character

Marne battle checked the Germans and forced the conviction that some thought and attention must be paid to neutral opinion. It is but necessary to read the extracts from German military writers and the German press appearing day by day in the war despatches to understand. that a very considerable and very influential section of Germany is today demanding a return to sea piracy and absolute disregard of neutral or other rights in the prosecution of the war. the opinion of those in authority in Ger many is well expressed by the Cologne Volkzeitung: "Standing on the thres hold of the third year of war, there is nothing left to us but to cry 'Forward, forward,' though the path lead to hell." To that path Germany's whole cam paign has pointed the way, and it is not surprising to find those who forced a world into war prosecuting it in the way Stanley Washburn describes and in the way experience and German writers lead us to expect it will be prosecuted. in the succeeding weeks and months.

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