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DAILY EDITION



#### NEW MAGAZINE

The Canadian Geographic Journal is the latest publication of Canadian origin to be offered to the public and it is by far the finest yet to appear. It deals with mostly Cana- the sands were first laid down; dian subjects and is very profusely illustrated.

The feature of the first number is the fine set of colored pictures of Canadian birds by Major Allan Brooks, the Canadian artist, whose work is so well known to school teachers because of his illustrations in the most recent nature book published for the department of education.

The Canadian Geographical Society in a foreword says first the object of the publication is to make the resources of Canada, economic as well as esthetic, better known both at home and abroad.

"The society expects to publish from time to time many articles devoted to various phases of exploration or travel or economic geography in other parts of the world by writers competent to speak with authority on their parti- River, which would shorten the encular subjects. It is feeling its way toward a difficult ideal tire distance to 13 miles. -a magazine that will combine an accurate authoritative and readable text with the best obtainable illustrations; ected on account of the concentrathat is a text that will be authentic but not stodgy, popular tion of the sands by a small stream without being puerile, and with illustrations that will tell their own story and not be merely pretty pictures."

We congratulate the society on its first number and hope it will find it possible to continue and keep the pub- meander about, first taking one lication up to its present standard. It will cost money but if it can be done it will be worth every dollar expended.

### EPIDEMIC OF HEALTH

It would seem as if New York City has been exercising an unusual period of health and the Christian Science Monitor, commenting on it says in part:

"Seriously, though, why should not New York City and farther south this peat has in flour gold and platinum from the every other city and section of the world enjoy an epidemic places a layer of 10 feet of sand on dirt of heavy black sand concenof health? Would not such a state of affairs really be more in by the fierce gales from the Graham Island. normal than that there should be periodic and terrifying southeast up Hecate Strait. This The machine consists of a bowl epidemics of disease? Is not health the natural state of the sand bank lies unconformably on individual? Too many health examinations and publicity clay and cemented gravel beds, campaigns do little more than impress on thought the ap- some of the clay beds being quite operation of the machine mercury parent necessity of disease. Let New York City and any thick; one measured 225 feet. They other city that chooses to do so turn its attention away north, striking each and west. The from too much introspective and analytical examination cemented layers of ferruginous of its so-called health problems, and the probabilities are gravel are only a foot or two thick that the hospitals really would notice a perceptible de- and lie both above and below the crease in business—and it wouldn't be temporary either." clay beds.

# Of Interest to Gardeners

### The Making of Better Bouquets

Some flowers often cause much with a sharp knife, making a clean same sands amounting to about annoyance by refusing to freshen cut instead of the usual methods of pound; this was carefully quartered up after they are cut and placed in scissors which crush the stem. A in the assay office but the resulting a separation of this material be-

water in the house, especially if some little time elapses from the time they are cut until they are placed in a vase. This condition! may be remedied by cutting the stems under water after they have been taken into the house and not exposing the cut end again to the

When the stem is cut in the open air the normal functioning of the plant draws air into the cut stem, forming tiny bubbles. This prevents the circulation of water through the stem and wilt follows. Cutting off a portion of the stem allows the water to circulate and the bloom will freshen up. The receptacle in which the bouquet is to be placed should have sufficient room for sharp cut after they are taken in water to cover the stems well and the house is advisable when they at night it is an excellent idea to place the flowers in some container have been cut with scissors. the life of the bouquet.

Another device is to sear the stems over the flame of a gas stove

well.

where the stems can be deeply sub- At this season of the year bran- up the ground and also collects the merged if it is desired to prolong ches of many early blooming shrubs rainfall which runs into the ground may be cut and brought into the along the rows where it is most house and placed in vases to open tender vegetables such as corn. tobefore putting the flowers in water. their blooms. The forsythia and matoes, melons and similar things, This is excellent treatment for pussy willows are much used in growth is very materially hastened many kinds of flowers. The stem this manner. They give a fine ex- which is a most important point the capacity for a large operation, of such a nature that it could should be cut just before the sear- ample of the effectiveness of where but this might be overcome in two easily be moved from place to ing. Searing closes the passages in simplicity in flower arrangements extra early vegetables are wanted. the stem and prevents the escape of as a few stems of the straight Moreover, this new mulch elimin- number of machines or by first fitable. sap. Poppies need treating by this growing willow and one branch of ates practically all cultivation. method to make them stand up forsythia will prove much more ef- Gardeners are advised to at least fective than a thick cluster of cover a portion of their vegetable It is always better to cut flowers tangled branches. patch with this paper.

## Graham Island Black Sands May Prove Commercial Producers of Gold, Mining Investigator Says

Numerous reports have been received by the Department of Mines of gold and platinum-bearing black sands on Queen Charlotte Islands, and recently a machine was mentioned as having been more successful in the recovery 7.50 of the precious metals than some of the former appliances, says a special report by Herbert Carmichael of the Depaid in advance for yearly period ...... 3.00 partment of Mines. I started my examination of these deposits with a considerable amount of scepticism as to a favorable report. When I investigated the Graham Island deposits I was forced to change my "----

have seen on Vancouver Island. It is be concentrated and the whole of probable that they cover all that the concentrate run down and the part of Graham Island on which resulting metals calculated back to glacial drift has been deposited to the amount of sand taken. any extent; this approximates an The concentrating action of the Tuesday, May 6, 1930 area of 800 square miles.

Test-Pits Sunk

It is probable that these black sands have become concentrated by shore driving northward. After a three different methods. First, by gale the entire aspect of the beach the action of glacial rivers when secondly, by wave-action; thirdly, by a foot of white sand or the the concentration of present-day white sand may be removed leav-

the black sands is on the beach of not of necessity lie on any particthe east coast of Graham Island by ularly impervious bed such as the the Queen Charlotte Syndicate, of clay or ferruginous gravel referred Vancouver. The workings are to, but may lie in a layer of disreached by motor road from Mas- tinct concentration on the top of sett to Tow Hill, a distance of 15 white sand, mixing very little with miles, thence by wagon road to the it. east coast, a distance of 7 or 8 miles. From the end of this road the beach has to be traversed a distance of 9 miles. If the operations are successful a road can be put in from Watun

This point on the beach was selknown as Martell Creek, where the high bank of the beach has been cut through by the stream. On reaching the beach all these streams channel, and then another, thus making the area concentrated larger than would at Tirst be expected; this is further aided by wave-action

#### Geological Data

about 25 feet high, composed

The upper layers of sand near Martell Creek are concentrated so that they contain 50% black sand and colors of gold can be found at any point by panning. The management states that values as high as \$11 to the cubic yard have been obtained. The writer panned the black sands of this creek in a num ber of places and got colors nearly every pan. As nearly an average as possible was taken of the assay did not show any of the pre- gins. the heavier particles moving cious metals, though four half as- to the outside.

A SHORT CUT

weeds checked by the use of mulch quickly amalgamated thereby, pass to trommels, which would ing them assayed in the way that got nearly anywhere by panning absorbs the sun's rays and heats needed. With those semi-tender and

views both as to the deposits and say tons were put through. I am of the machine used for saving the the opinion that ordinary quartergold. The black-sand deposits are ing cannot be relied on for this mamuch more extensive than any I terial, but that several pounds must

waves is curious. Hecate Strait is subject to violent south easterly gales which beat upon the eastern may be changed. What before showed black sand may be covered ing black sand. One striking pecu-The only work now being done on larity is that the black sand does

#### Hanssen Seperator

These concentrated layers may be from an inch to several feet thick; this variation in thickness and changes of location of the back sands is one of the factors which has to be taken into consideration in turning any black sand venture into profitable enterprise. Where concentration is great, such as at Martell Creek, expensive methods of handling the sands may pay, but there are other places there it would not, but which might be quite attractive if worked on a larger scale.

The Queen Charlotte Syndicate proposes saving all the precious metals by the Hanssen precious metal separator, a simple but inis genious application of centrifugal of force, particularly well adapted for sand, with 4 feet of peat on the top; separating the very fine gold or the top of it which has been blown trates found on the east coast of

> mounted in a casing, the bowl rotating at any desired speed. In the is placed in the bottom of the bowl When the machine is rotated the mercury will be caused by centrifugal force to flow upwardly along the inner wall until it forms a cylindrical wall or lining on the inside of the bowl. The auriferous and platiniferous sands are then fed into the feedpipe with water. Special devices direct the pulp from the bottom outwards and upwards, and also give it an angular velocity equal to that of the bowl, causing it to travel upwards at a predetermined speed depending on the nature of the feed) in a thin layer over the mercury. As soon as the gold and platinum, bearing material is subjected to the action of the centrifugal force

#### Action Explained

ration of the heavy particles of centre of this would be chosen for a number of years, but it should platinum to the ton, but a general metal from the other heavy par- the gold saving plant. A portable be clearly understood that such sample on assay gave no values. ticles (as magnetite, garnet, etc.) tramway with light cars would be undertaking should be approached The southern end of the claim is the pulp is kept agitated by spec- run to one side; these cars to be with caution under expert advice cut by a small stream which has cial appliances, and the gold and filled by a gasoline or electric and a thorough sampling of the concentrated the sand; here two gravity than the mercury, will pen- plant by rope, carried up an in- is incurred for machinery. etrate and remain in the mercury. cline, and dumped into a bin. From Taking a number of samples here rand and pumping the water from Growth can be hastened and In the case of clean gold it is the bin the sand and gravel would and there over a deposit and gett- the stream. Colors of gold can be

nounce it an unqualified success. which it would pay to handle the lating the yield. My fear is that it may not have sand. Further, the plant would be ways, either by multiplying the place where the values proved proconcentrating the sand by jigging.

ing plan woul dseem to lend itself black sand deposits of Graham Is- sand from 1 to 12 inches thick; a to a large operation: Suitable land should not turn out to be sample of concentrates from this In order to accelerate the sepa- ground having been found, the paying ventures, and hold good for claim gave 0.6 oz. gold and 2 02. platinum, having greater specific small shovel and hauled to the ground made before any expense men were able to make good wages

) 1LB. (

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paper which is now highly recom- Platinum and rusty gold or greasy screen out all over 40-mesh as be- would be done in a lode mine will, and some of the colors are a fair what is mended by government authorities gold will be retained against the ing of no value; the trommels or in my opinion, give results which weight, by no means what is for the home garden. This is simply wall of the bowl until the machine screens would deliver to a Han- may be entirely erroneous, either known as fine gold. This property tough black paper, coming in varies brought to rest. The sand, being cock jig, which for this class of too high or unduly low. The meth- is over fifteen miles from where ious widths, which is tacked down lighter than mercury, will pass work should have a capacity of od that suggests itself would be to the other black sand deposit is bewith wire staples, or laths between over the surface and out of the 400 tons a day. The concentrates take a small self-contained Hans- ing worked and will serve to show the rows of vegetables. The paper best to show the rows of vegetables are paper best to show the rows of vegetables. from the jig would pass to the sen seperator on to the ground and the wide distribution of the values. This machine had only been in- Hanssen machine, where the values run through it a definite yardage stalled two days before my arrival would be saved. Such a plant of sand from representative secand was given a test while I was would allow of a large daily ton- tions of the ground, then retorting there. It seemed to work perfectly, nage being put through, thus very the mercury and weighing the re- his home at 404 Eighth Avenue but it is still too untried to pro- much reducing the values at sulting precious metals and calcu-

#### Black Sand on Massett Inlet

above high tide and some 50 feet ing treatment in the Prince Bu-Provided careful prospecting If carefully thought out, both as back amongst the timber. Several pert General Hospital where it is showed that there was a sufficient to method of working and finance, test pits have been sunk 8 or 9 expected the bone will be set to body of payable sand, the follow- I see no reason why some of the feet deep, showing layers of black morrow.

with a sluice-box, shovelling in the

WINNIPEG

Playing on the street not far from West, Oliver Santerbane, five-year old son of Mr. and Mrs. D. Santerbane, suffered a broken leg at the Peter Kay has a black sand end of the week when he was claim about 1 mile south of Masset struck by the Q. and S. Grocery dewharf. The bank is 15 or 20 feet livery car. The child is now receiv-



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