

After confering with Field Marshal Sir Bernard L. Montgomery, Prime Minister Winston Churchill, smoking big cigar leaves small station in Belgium. Following brief visit to Western Front English leader returned to London early in January.

## WHAT SCIENCE IS DOING

Anti-Freeze

As a fruit of the largest chemurgic experiment so far undertaken in Canada, scientists of the National Research Council now are turning out butylene glycolassuperior ant-freeze—as a byproduct of wheat in a pilot plant overlooking the Rideau river.

Butylene glycol can be broken down chemically into several other useful substances, and research into these possibilites now is going on.

The plant produces 10 pounds of butylene glyco and six pounds of ethyl alcohol from a bushel of wheat.

At one stage of the work the investigators dug into a garden while a temperature of 30 degrees below zero prevailed to find a bacillus capable of fermenting wheat As a fruit of the largest chem-

investigators dug into a garden while a temperature of 30 degrees below zero prevailed to find a bacillus capable of fermenting wheat rapidly and directly. They developed a strain called himself after the minnow, pound

A noteworthy feature of the ex-traction process is that off-grade or damaged wheat can damaged wheat can be used, and such varieties often contain more starch and hence are more desirable than premium grades.

## Photo Taken In Millioneth Of Second

Officials of the Westinghouse Electric and Manufacturing Com-pany, Baltimore, have disclosed the development of an X-ray machine, which takes a picture in one milfionth of a second.

The high-speed picture-taking

machine was made in answer to engineers from mining ordinance engineers for a way to take pic-tures of an artillery shell as it passed through the muzzle of the gun and as it pierced a plate of



## Socialists Would Kill Incentive

Socialists sneer at the man with initiative; hold in contempt the

carefully; for that day gave up the struggle. Next day, he was again hurling

Aerohaeillus polymyxa which cut the fermentation period from 10 days to three days.

They developed a strain caned in ministration after the minimow, pounding his snout on the glass. But he gave up sooner.

The third day, he tried again, gave up sooner.

A few more days, the partition was removed. But the trout's initiative was gone. He stayed in his own end of the tank. The minnow was completely safe.

was completely safe.

There's a moral for those people who think we can safely try "just a little bit of socialism"; then the pit of socialism"; then change our political diet if it fails to produce the promised millenium.

The maker of jobs who gets a sock on the jaw from lawmakers and officials every time he shows drive and initiative and fighting spirit soon learns to stop trying. spirit soon learns to stop trying.
And the biggest loss is to the Canadian people as a whole.

## Buckingham Palace Bombing Now Told

A bomb crashed through the A bomb crashed through the roof of Buckingham Palace and through the Queen's apartment during the London blitz, it was permitted to disclose recently.

Eight men of the Palace Home Guard unit disposed of the three-foot-long explosive. Two of them, later commended for brayers were later commended for bravery, were Maj. John Cowan, a company commander who since has died, and Maj. Thomas Williams.

The King last week personally inspected this Home Guard unit at its stand-down parade. Every man had kept the three-year secret of the bomb and the damage it caused. the bomb and the damage it caused

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## VOICE OF THE

JUST A SUGGESTION It would be "populaire" with many thousands of right-thinking Canadian, if a few "blocks" of concrete were dropped on the heads of those noisy, ant-British Bloc Populaire leaders down in Quebec.
—St. Thomas Times-Journal

STICKING TO IT It is seventy-five years since chewing gum was patented and another great industry started on its way. Imagination, initiative and stick-to-itiveness did the rest. -Winnipeg Tribune

OAT MILEAGE NOW With the roads in the back con-cessions in poor shape for motoring, farmers are discussing the mileage they get on a gallon of -Kitchener Record

NOT ENOUGH Always hope for the best, but don't sit down and call it a day's -Guelph Mercury

SHADY BUSINESS Hitler is said to be so excessively anxious regarding his per-sonal safety that he is doubling his shadows and shadowing his

## Soviet Grapefruit

The first grapefruit grove in the USSR, in Georgia, will yield an estimated 100,000 grapefruit this stimated 100,000 grapefruit this year. Introduced from the United States only a few years ago, the grapefruit is gaining wide popularity for the UNICR Planting was your chicks for next spring when you want them. Earned Rock to the Popular them was the way of the popular them. Sarred Rock to the popular them was the popular them halted by the war, but the groves in the sub-tropical zone are now being expanded.

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## 'We Have Given Everything - We Ask Nothing In Return': Churchill

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which is our due, and if that were "The British Commonwealth and

denied us we shall still have a nation may rest assured that the

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arbed wire fence causes only slight delay to this Yank infantryman, as reinforcements move up cross muddy, snow-covered country-side in the Bastogne sector. Infantrymen shown here are par General Patton's Third Army forces which relieved the enemy-surrounded Belgian city.

VIMY . . . CANADIAN FRONT LINE . . . 1917



Kon. John Bracken, (fourth from left) and his party are seen here in the official Canadian front line of 1917 on Viny Ridge, where Canadians of a quarter of a century ago covered themselves with glory. Notice old fashioned sand bag reinforced trench.



KEEPING COMMUNICATIONS OPEN IN BELGIUM

graph on the left shows a post-hole digger in action drilling holes for telephone poles. At right Canadian signalmen are seen stringing telephone wire to a main control pole. They are Lorne Foster, Port Hope, Ont; John Welsh, Bowmanville, Ont., and Ken Ney, Stratford. They serve with a Canadian Railway and Telegraph Company of the Canadian Army in Belgium.

If you think it's cold, look at icy fingers formed on deck of new 5090-ton Coast Guard ice breaker Machinaw. Bundled up in heavy clothes, chief boatswain's mate examines ice formations as vesset heads for port after trial run through heavy winter weather on Lake Huron.



Ben Rocklin, Chicago's one-man commando knife factory, proudly displays one of his eight-inch, double-edged "Jap stickers," He estimates that he has turned out 6000 of them, from salvaged steel, since the war began.

KEEPS ON EDGE

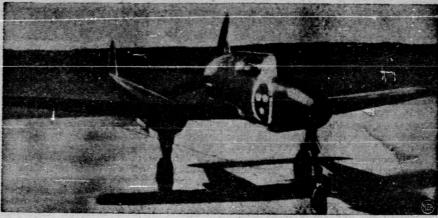
by President Roosevelt. One time ambassador to Panama, he has

WHY LO IS LOW





### SWEDES' NEW PLANE HAS LOTS OF 'PUSH'



Radiophoto above, from Stockholm, is the first photo received in this country of the Swedish Air Forces's newest fighter plane, which is a radical departure from conventional types. A low-wing twin-boom model with retractable tricycle landing gear, it gives the pilot greater visibility by having the motor at his back. It is a "pusher" type, with propeller at rear between tail booms.

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