THE FRONTIER, O'NEILL, NEBRASKA

Have You Any Ideas for 'Secret Weapons'? Inventors' Council Wants To Know Them

Many War Machines Were Developed by Civilian Amateurs

Want to help finish winning the war?

Well, just settle down some night in that favorite easy chair, light up the old pipe, take out pencil and paper and figure out an easy way of gen-erating an artificial fog-one that can be laid just where you want it and really do the business.

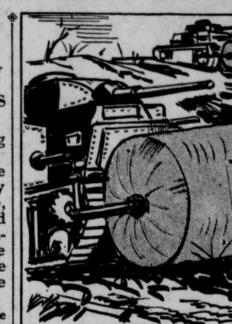
Sounds simple, doesn't it? But the army would give a great deal for a practical solution to the problem of covering advancing troops this way. It can be done. A number of methods have been tried out; but most of the equipment is too big and cumbersome for effective action at the front. The army is still looking for a simple, effective way of providing this cover.

And while it is looking for a way to create an artificial fog, it is also on the alert for any new methods of dispelling such a fog laid down by the enemy. Here, too, a number of methods have been suggested. some have been tried with a degree of success; but the problem hasn't yet been really licked.

This is where the National Inventors' council comes in. It was set up within the framework of the department of commerce in 1940 to serve as a clearing house for just such ideas that military men might find valuable. Headed by Charles F. Kettering, a past president of the society of Automotive Engineers. and composed of the nation's leading scientists and engineers, it serves as a funnel between the American ingenuity of the man in the street and the proper military authorities.

The council is dedicated to the principle, widely accepted both withthe government and outside, that all modern warfare is largely a battle of inventive ideas. The heavily gunned and armored tank. the superbomber, the aircraft carrier and the robot bomb-all have been responsible for major changes in strategy as well as tactics in the battles of this war.

Civilian Contributions.



Can tanks be equipped with explosive-absorbing rollers to lessen the effectiveness of minefields?

but none as yet has furnished the complete solution.

When the soldiers and marines first began landing on Pacific beaches in the face of heavy enemy fire there were scores of suggestions that infantrymen be equipped with shields. This idea had to be discarded, the council says, because the weight of such a shield, if it were to prove capable of stopping a military projectile, would be too great for a fully-equipped infantryman to handle

Ideas from Soldiers.

Some of the suggestions, too, come from men at the fighting fronts and in army camps, A lieutenant-colonel on duty in Italy wrote in with an idea for equipping tanks to blow up enemy mines without danger to the tank-crew. His suggestion was equipping a heavy tank with a gigantic explosive absorbing roller, to be pushed ahead of the vehicle as it waded through the mine field.

An army sergeant, Lauren N. Elkins Jr., figured out an improved design for a field kitchen, tested it himself on maneuvers, found out it worked and submitted his idea to the council. Within 24 hours it had won acceptance of the army quartermaster corps and test models were constructed. Along with the new type field kitchen, Sergeant Elkins submitted an idea for a shipping case for the kitchen, which broke down into two benches and a table.

methods of ventilating the tanks to reduce the extreme heat under which its crew must operate. At present a roof-suspended unit that takes in air through a bullet-proof enclosure is in use in many types. But the field for improving the comfort and fighting ability of the men who man the tanks has by no means been exhausted.

Another invention the council would like to put its hands on is a voice-transmitting gas mask which would permit its wearer's voice to be heard clearly. At present the new type masks are using a flexible diaphragm. Others combine the features of a lip microphone and a portable transmitter. But the field still wide-open for improvement

Keenly needed, too, as a protection to fliers, is a means of inflating carbon dioxide life rafts more speedily at high altitudes. Fliers forced to bail out in cold North Athoof

lantic areas at 30,000 feet find that their carbon dioxide supply has been burned to dry ice by temperatures ranging as low as 60 below. In the rapid parachute descent, the carbon dioxide doesn't have time to resume its gaseous state and shock of the icy water, if the life raft isn't immediately available, is often fatal in far northern latitudes.

Range finders, too, are important factors in directing artillery fire at enemy positions. Delicate optical instruments, they are subjected to hard usage in the field and reflect sudden temperature changes. A

method of providing more sturdy construction and at the same time reducing the width without reducing the accuracy of operation is a real need. Right now, the council is particularly interested in homely ideas that might aid in destroying or removing obstacles to landing op-



Another invention which has



THE only trouble with being a fine actor in Hollywood is you're worked to death. Sydney Greenstreet knows all about that. In less than three years here Sydney, who is my idea of a really excellent actor, has made 12 pictures.

A Sydney Greenstreet part comes close to being the kernel of any picture in which he appears.

That's the way it turned out in "The Maltese Falcon," his first, Audiences didn't know his name, but answers to nearly all the sneak preview cards ask-

ing, "Who gave the best performance?" read: "The fat man." That was Sydney, who weighs in at 280 pounds on the

Warners, where Sydney checks in, knew right then that they had Sydney something. Tak-Greenstreet

ing advantage of his leave of absence from the Lunt-Fontanne production of "There Shall Be No Night," Warners rushed him into his second, "They Died With Their Boots On," in which he scored again. When the Lunts wound up their road tour Greenstreet signed a studio contract.

Not a Novice

Sydney, who is 64, has been acting 44 years. His stage record reads like a Who's Who of the Theater, and in fact he has to refer to that musty tome himself in order to recall all that he has done.

The world has been Sydney's oyster. There's hardly a spot on the globe he doesn't know-Canada, the Americas, the British Isles, India, Ceylon, Italy, France, Malta, and North Africa-all these he toured not once but many times.

Sydney Greenstreet, who was born in Sandwich, Kent, England, December 27, 1879, is all through traveling. He likes our town and has settled down for good on a high mountain overlooking the town. He greeted objets d'art

"You see, Hedda, I am comfortable at last—I've done with my traveling. I'm 64, and I think there is tremendous scope for fine work

here.

man.



Dad-Son Partnership National Farm Life Can Be Made Secure

"One of the fundamental needs of agriculture is to have a succession of the same family on the same land throughout succeeding generations," according to H. C. M. Case, University of Illinois college of agriculture. In making that statement, Case said that he was thinking of the good of the individual, the community and the nation.

One of the major problems of agriculture is the movement of capital and earnings from the country to the city. In a period of ten years, approximatley six and one-half million people go from the country to the city during normal conditions. The costs of their education, the inheritance of farm property by city dwellers and collection of rent from a farm property by city dwellers make a heavy drain on the land. This situation also makes it difficult for young people remaining in the country to secure a foothold as farm operators and eventually to become owners of farm property.

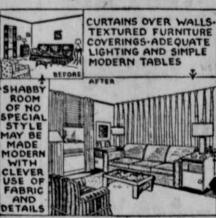
One way of meeting the situation is by means of father-son partnerships on the farm. Case offered four specific suggestions, each based upon a well-kept system of records regarding kinds of father-son arrangements which may be made to facilitate the young man getting a start on the farm:

(1) Where the father owns all the land, equipment and livestock, and the son supplies only his labor. The common arrangement is to guarantee the son hired-man wages, but if a given share of the farm income agreed upon by the father and son exceeds the amount of wages, then he receives an additional amount at the end of the year.

(2) Where the father is a tenant and the son contributes only labor. The plan is similar to the first one in so far as the son is guaranteed me there recently among priceless a going wage, but he receives a correspondingly larger share of the income received by the father because his labor will amount to a larger proportion of the contribution to the farming operation than it would if he also owned the farm. (3) Where the father and son oper-"The most important thing with ate a farm jointly. If the son lacks me in pictures is to keep from being capital, he can give his father a typed. I started as an arch-villain promissory note and pay interest on in 'The Maltese Falcon,' and feared his share of the investment of the operating capital, which would put him in the status of a tenant with his father. Under this plan, the father would receive the landlord share of the income from the farm, but in addition the father and son as equal tenants would divide any additional earnings between them. (4) Where the father is ready to retire. In this instance, the son as tenant may take over the ownership of the operating capital, even though he lacks the capital to purchase it outright. He may give his father a note and pay interest on the investment or the operating capital and become a full operating tenant of the farm. Or it may be desirliam Makepeace Thackeray, a per- able for the father to retire while still owning the operating capital. Mask of Dimitrios' I again switch to Under this cheme, the son may accept a smaller share of the income from the farm in order to give his father adequate pay for his investment in both the farm and the operating equipment.

The Use of Fabric and Thread in **Decorating Homes of Tomorrow**

By Ruth Wyeth Spears



F YOU are dreaming about redecorating after the war-and who is not-put this in your note book. There will be a more lavish use of fabric in home decoration than ever before. There will be many new types of textiles and many new weaves. Fabrics will be designed to wear longer and to stay clean longer. A feeling of spaciousness will be obtained by

blotting out some walls with curtains. Irregular or badly proportioned spaces will be brought into harmony by covering parts of them; and small windows will be made to seem high and wide by covering the wall around them. The homemaker who can sew a

straight seam will save many a dollar for she may have curtains

Unminit

NTERIOR VIEW

puckered seams and hems. . . . NOTE-You do not have to wait for your home of tomorrow to have the attractive coffee table shown in this sketch. It is A map, a favorite print or a piece of hand work may be placed under the glass top to give a decorative effect. Ask for pat-tern No. 254 and enclose 15 cents. Address: easy to make from straight cuts of la

pleats are to be used at the tops of

curtains; and set the machine for

a long stitch for speed. Clip sel-

vages every few inches to avoid

MRS Bedford	8. RUTH WYI I Hills Drawer	New 1	7 A
Enclo	se 15 cents for	Pattern No.	254.
Name .			
Address			

Maori Boys Are Skilled **Canoeists From Infancy**

The Maori boys of New Zealand are skilled canoe-users as soon as they can walk. Apart from actual races with one another, they improvise all sorts of stunts with their canoes.

To see them make their canoes jump hurdles one foot high in the water is a grand sight, but the of any length, width or fullness effect is heightened when a few merely by stitching straight widths of them, each in his own craft. together. And here is a decora- hurdle-race down a river. There's tors' tip for her-allow a hundred nothing effeminate about these and fifty per cent fullness if French | hardy, sun-bronzed lads.



of the weapons of modern war, or ian mind - the submarine, the torpedo, the motor driven airplane, the internal combustion engine.

war come from expert technicians or outstanding engineers, thoroughly familiar with the particular field in which they lie. But many of the 200,000 ideas or inventions that have been submitted to the council since its inception have come from the rank and file of the people.

From farmers, teachers, factory workers, business men, youngsters in school, and even a few women, have come suggestions that have proved of considerable assistance to



The army is still looking for a simple method of generating artificial fog to cover advancing troops.

the armed forces. And these inventive suggestions follow a definite pattern in volume with each new phase of the war or induction of new weapons by the enemy.

For example, when the submarine menace was at its height, the council was receiving an average of 100 letters a day describing how torpedo nets could be used to keep the the tank is "buttoned-up" for battle. "tin-fish" from blasting the sides of He can see only ahead. Performance merchant ships. Now that the sub- of gyroscopic compasses and other marine menace has been licked, instruments on the control panel

Another thing the council keeps saved scores of lives is a simple firmly in mind is the fact that many signaling mirror which can be directed straight into the eyes of pilots the key principles which go into searching for crews of sunken ships them, were the product of the civil- or airmen down at sea. This mirror, cheap, light and easy to construct has been known to send a shaft of sunlight into the eyes of a pilot up Naturally, most of the major to 10 miles away 36 times in a single improvements on the weapons of minute. And there is no trick to focusing it.

Value of Milkweed Floss.

From the floss of the common milkweed, the researches of a civilian scientist filled one of the most pressing of military needs at the outset of the war. Supplies of kapok, used in the heavy jackets of high-altitude fliers and in life belts. had been shut off by the advancing Japanese. This scientist showed that

milkweed floss could do the job better and that it could be used, too, for insulating and soundproofing.

Many of the ideas adopted, the council's records show, have served to speed up quick repairs in the field, to get planes and guns back into the battlelines faster than they could have been readied previously. But not all of the inventive and mechanical problems of the armed forces have been solved. Many new ideas still are urgently needed, even in fields where considerable improvements have been made since the start of the war.

For example, there is a crying need for some means of controlling fires in tanks until the personnel have had time to evacuate. At present, the council's records show that carbon dioxide under pressure in a small metal container is being used with some success. But the carbon dioxide treatment doesn't serve to prevent the live oxygen-carrying ammunition from exploding within the tank as the fire soars past the burning point of TNT. An improvement over this method would be widely welcomed if adapted to the

Tanks Need Improvements.

interior space is so limited.

The cramped quarters of the present-day tank make it a fertile field for improvements. The operator's vision is extremely limited when robot bombs are on the upswing; ideas submitted to the council, in chanized war.



This signalling mirror can be directed into the eyes of pilots who are searching for crews of sunken ships or airmen down at sea.

erations that have proved so costly in lives in the far Pacific and on the beaches in Normandy. A simple idea from a mechanic or a farmer might develop a technique that would preserve the lives of the men who must go out ahead of the main landing parties and clear the way.

Japs Clever, Too. The council cited the report from Saipan that men, clad only in bathing suits and armed with rifles and detonating charges, had to swim to the obstacles off shore and blast them individually from the path of the oncoming troops. The Japanese, too, have shown

themselves ingenious in adapting simple decoy devices to battle-front use in attempting to confuse or mislead attacking forces. One Japanese sniper had rigged

up an over-sized "puppet show" to harass American landing forces. He concealed six dummies in trees surrounding his position and attached them to his own station with ropes. When his shots attracted American fire in his direction, he would jerk the cord, let one of the dummies fall from a tree. Each time the American troops were confident

they had eliminated his sniping post. Then he'd wait his chance and open fire again. Some ideas along that line, de-

veloped by Yankee ingenuity from close experience from hunting and fishing, from work around farm machinery, or from bench and lathe, peculiar needs of the tank, where the council believes, might go a long way in saving the lives of our fighting men and give them opportunity to develop tactics of surprise that

> could come in handy in many a close encounter. The American people have re-

sponded tremendously to the need for wartime inventions of all sorts and character, the council believes, but there are still hundreds of ways such suggestions are rare. Right could be stepped up. Improvements in which American "know-how" can now, suggestions for combatting the already have been made, through be applied to the problems of a meway."

for a while that I'd stay a big bad From Good to Worse "Luckily, and I intend to keep it that way, I haven't. My characterization was changed in 'They Died With Their Boots On.' when I played General Scott. I was a heavy again in 'Across the Pacific,' and a sort

of benevolent mystery man in 'Casablanca.' "For 'Background to Danger' I reverted to evil again as head of

the Nazi Gestapo, but in 'Conflict' I am a psychiatrist who sends Murderer Humphrey Bogart to his execution.

" 'Devotion' has me cast as Wilfectly lovely gentleman, but in 'The a man of mystery and dark doings.

Still Learning

"The movies are new to me." he says, "but I think I am catching on. The first time I saw myself I was

embarrassed. I got the shock of my life. I wanted to die. I knew I was pretty bad, but there I was on the screen-a horror. The lens is the actor's best critic-it shows the mind working. It shows feelings. You can get wonderful cooperation out of the lens if you are true, but God help you if you play it false."

Greenstreet has what I call a ster he drifted into amateur theatricals until, encouraged by his mother, he joined the Ben Greet Players Holmes" in 1902.

light," "Amphytrion 38," "The Sea Gull," and "There Shall Be No Night." Then Warners caught him.

If Greenstreet has any criticism of Hollywood actors-and he is very loath to criticize any one-it is that

they don't work hard enough. "Maybe I can't help it," he says. 'Maybe it's old fashioned on my part, but I have to be letter per-

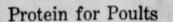
fect in my lines before setting foot on a stage. I was brought up that

Health Improved by **Control of Parasites**

Cattle grubs spoil one out of every three hides by puncturing the skin, and also cause considerable loss of meat. Similar damage is also done by ticks, mites, lice and other anthropod parasites which interfere with growth and make animals unbackground. While still a young- thrifty. Rotenone and selected dips are recommended as an antidote. Worm parasites of the digestive tract injure older stock, and cause and made his debut in "Sherlock many deaths, especially among young animals. As much as 125 mil-In 1904 he came to America, join- lion dollars a year is lost by the ing forces with Sir Herbert Tree and damage they inflict. Nodular worms, Margaret Anglin. For seven years for example, spoil sheep intestines he played with the Lunts in "The for catgut sutures and sausage cas-Taming of the Shrew," "Idiot's De- ings. Phenothiazine is the principal recommended remedy.

Animal livers are spoiled for food and for use in medicinal preparations by liver flukes (flat, leaflike parasites) and fringed tape worms. Wartime research has produced a hexachlorethane - bentonite suspension for the control of liver flukes in cattle.

Two slices of bread wasted once a week in each home equal three million wasted loaves per year.



Young turkeys thrive on a simple vegetable-protein diet which does not require any of the animal projust been made a colonel-and who, teins in scarce supply because of when he comes back to the films, the war, U. S. department of agrishould write as well as act: "Sorry culture research has determined. I haven't been exactly swamping Soybean meal and peanut meal were are some 50,000 sub-classifications you with letters, but as you can im- | the chief high-protein feeds used in agine, what with one thing and an- the test diets. Most rapid growth other, we in the army have lately to six weeks of age came from a been quite busy! I have seen mash containing ground wheat and soybean meal, together with some alfalfa-leaf meal.



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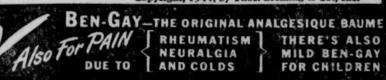
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Archives of Patent Office Hold Story of American Greatness

tain the graphic story of the prog- of day until the war is over. ress of America and the achievements of the men who helped build | vided for in article I, section 8, of this great country of ours. In these the constitution of the United States. files are the "birth certificates" of which states that congress shall the hundreds of thousands of inven- have the power "to promote the tions that have placed America progress of science and useful arts, away out in front in scientific and by securing for limited times to auindustrial achievement. Every week, thors and inventors the exclusive every day in fact, these files grow | right to their respective writings and | his invention or discovery through

The institution of patenting is pro-

The files of the patent office con- | brain children will not see the light | 000 patents, some of which marked turning points in the history of the world. The steam engine, telephone, electric light and airplane are only a few of the more obvious ones. The others are broken down into 310

classifications, under which there A patent gives the owner the exclusive right to make, use or sell bigger. For Americans are still in- discoveries." To date, the U. S. out the United States and its terri many of your friends since I last verting, even though most of their patent office has issued nearly 2,500,- tories for a period of 17 years.

. . . War Broadens Niven

Latest report from the unofficial war correspondent, David Niven, who forgot to mention that he had wrote."

