

Pr32.4802:Or3

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**YOUR ORE GOES
JAP-HUNTING!**



BATTLES ARE WON . . . OR LOST . . . IN THE MINES!

A SIGN in one of our great arms factories reads—"Nobody runs from an empty gun."

There, in six words, is why you, America's miners and smelter men, play as important a part in this war as America's soldiers. No soldier, no army, can win or even survive without ammunition. And ammunition . . . bullets, shells, bombs, grenades . . . takes more of the copper, zinc, and lead you mine than anything else. Two-thirds of the copper used by the War Department, for instance, goes into ammunition!

How come ammunition uses so much of these metals? Take a look at the diagrams opposite. Copper, zinc, and lead in every cartridge and shell! And remember, it takes millions of rounds to fight a battle . . . even to fight one brief engagement. Listen—

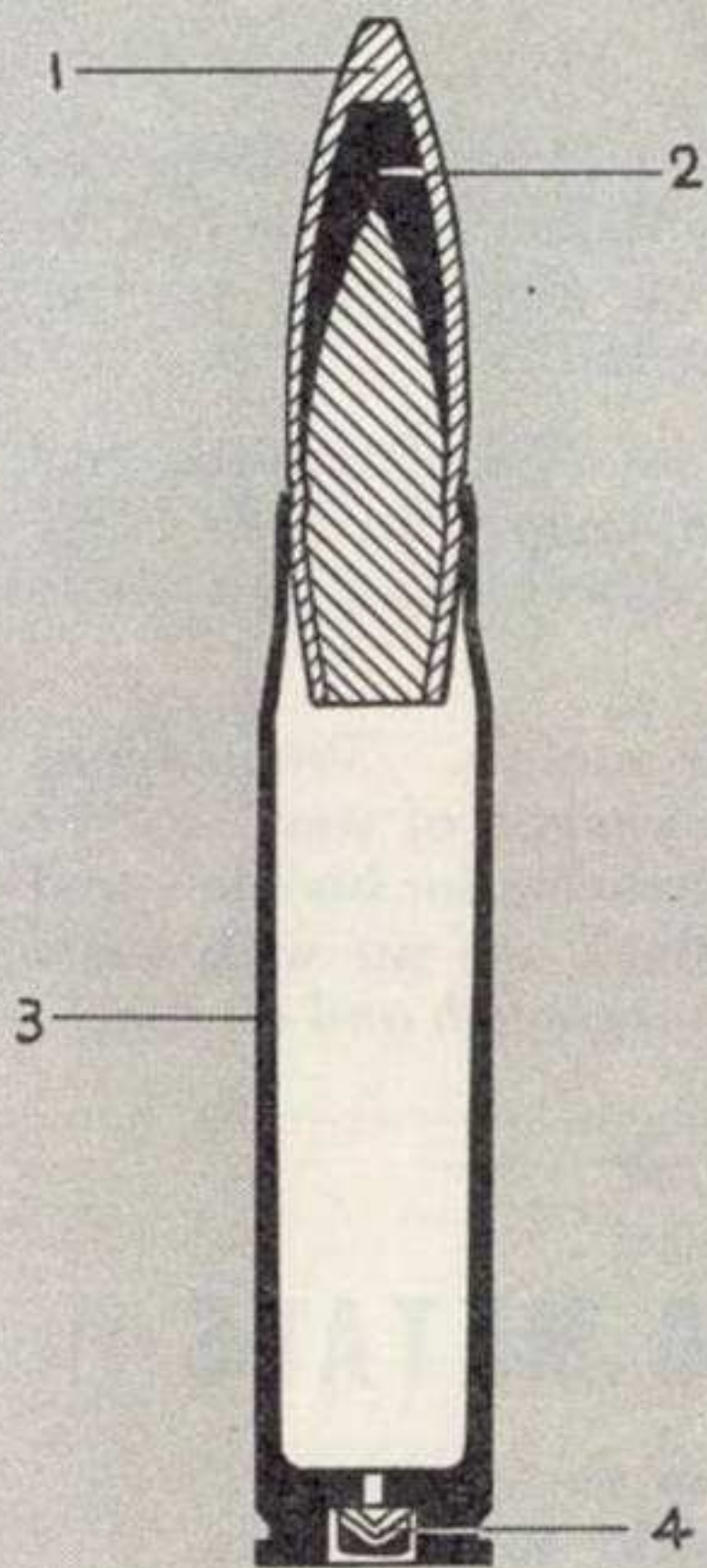
In the last war, Germany fired 21,000,000 rounds of artillery ammunition in the offensive against Verdun alone. Nobody knows yet how many times that amount both sides have fired in the battle of Stalingrad.

In just *two minutes*, 50 fighter planes fire 1,000,000 cartridges. That means 28,000 pounds of copper—enough to keep a copper miner busy for 90 days!



**"You dig it
. . . we'll
shoot it!"**

You could go on with statistics like that by the hour . . . how 900,000 tons of brass went for cartridge cases during 1942 . . . how the ammunition one M-4 tank carries into battle contains half-a-ton of copper, zinc, and lead . . . how a miner would have to work for three days to keep a 37 mm. anti-aircraft gun shooting for *one* minute.

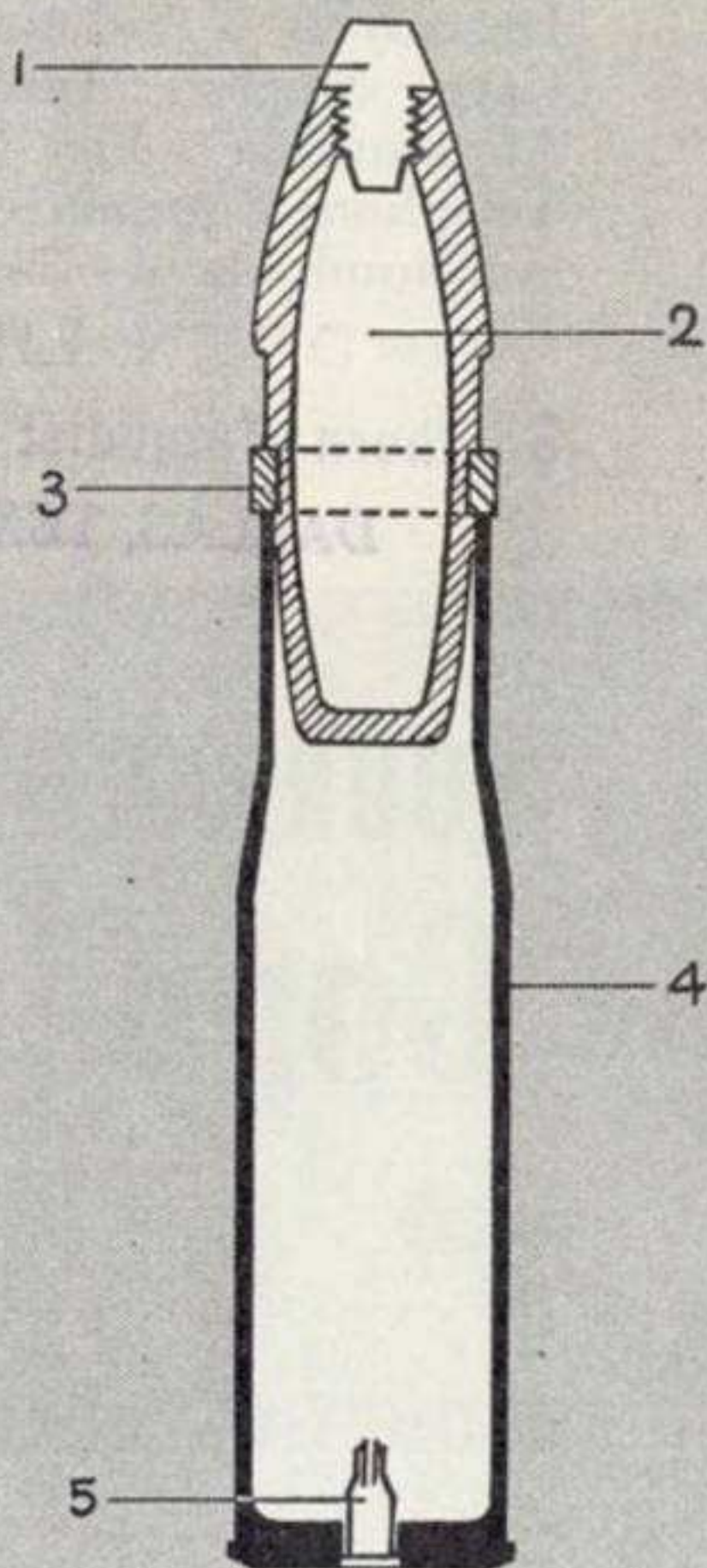


YOUR METALS MAKE CARTRIDGES

(1) Copper-and-zinc alloy on jacket gives rifling a "bite" on bullet and prevents escape of explosive gas around bullet. (2) Lead pellet gives bullet correct center of gravity. (3) Brass case (70% copper, 30% zinc) expands to fit firing chamber. (4) Copper primer cup and anvil resist corrosion.

YOUR METALS MAKE SHELLS

(1) Brass fuse cap (on some shells) can be milled quickly and accurately; brass fuse gears are non-corrosive. (2) Lead compounds necessary in explosive. (3) Copper rotating band gives rifling a "bite" on shell. (4) Brass case. (Will shortly be replaced in many instances by steel to save brass.) (5) Noncorrosive brass primer and anvil.



But what it all boils down to is this: If we ever hope to blast the Japs out of the territory they've taken from us and to smash Hitler's war machine, it's up to you miners and smelter men to give us more and more and *more* metal!

More? Absolutely! Under Secretary of War Patterson has said, "America's whole war program is endangered by a shortage of these basic metals. The Army and Navy *must* get *more* copper, zinc, and lead—NOW!"

Ammunition is just one user of your metals. Tremendous quantities are also needed for every other weapon of war. Every American soldier, sailor, and flyer grimly fighting for his life—and for *your* life—only asks this of you: "Back me up with more metal . . . not 'too little and too late' . . . *but enough and on time!*"



YOU MINE FIGHTING METALS

Copper, Zinc, and Lead are vital to the making of:
Airplanes . Tanks . Rifles . Automatic Rifles . Machine Guns . Anti-tank Guns . Anti-aircraft Guns . Field Guns . Mortars . Howitzers . Coast Defense Guns . Battleships . Aircraft Carriers . Cruisers . Destroyers . Submarines . Motor Torpedo Boats . Cargo Ships . Tankers . Torpedoes . Shells and Ammunition . Fire Control Apparatus . Radio and Telephone Equipment . Jeeps . Scout Cars . Trucks . and hundreds of other pieces of war equipment.

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MORE **Copper, Zinc, Lead** NOW



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