

As silver prices rise, owners line up to sell heirlooms Forks, sopons and knives melt into metal that turns up in items ranging from the space shuttle to dental fillings.

Silver: Its versatility is growing

graphic magazine, Allen A. Boraiko des the rest of the silver was used and why.

SILVER'S RESISTANCE to most acids and corrosion aligns it with gold as a noble metal. Only silver rivals gold's ability to bend and stretch. Boraiko writes:

"A smith can draw one grain of silver — about five-hundredths of a troy ounce — into 400 feet of wire, or beat it into leaf nearly 150 times thinner than this page."

Thursday, September 3, 1981

National Geographic Societ

If silver can ease the pain of a burned child, heat home, and help send a shuttle into space, how ong will it be used to dress up dinner tables?

Although it's still the stuff of wedding presents and jewelzy, most silver today is sought for a grow-ing ist of more practical uses. The Uhited States used 1872 million troy ounces of silver in 1878, but only 13 million ounces who live steringware and another 53 million ounces into jewelzy. Writing in the September issue of National Geo-



than this page." The best of the sense that the sense that the sense of the sense that the sense of the sense that the sense of the sense that the sense that the sense of the se

Americans for dental work. That's not all. No metal — not even copper — conducts heat and electricity as efficiently as silver. Silver wires lace silicon solar cells, and silver oxide batteries power hearing aids and calculators, submarines and satellites.

HARDENED WITH tungsten or molybdenum, miniature disks of silver tap together and switch current from wire to wire in cars and lights; silver-

plated disks do the same in telephones and comput-

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ers. Silver serves as a natural dry lubricant in the electrical contacts of a dishwasher, and as a fric-tion reducer in the main engines of NASA's space

Then there's photography. In 1979 of those 157.2 million troy ounces of silver used, 65 million ounces went into photography. In film, crystalline silver salts instantly detect light falling on them and per-

saits instantly detect light failing on them and per-manently record it. When the film is processed, the saits become sil-ver grains that amplify the image a billion times, producing a picture. The sait crystals are so sensi-tive, says one researcher, that just one could detect the light failing onto the Earth from a candie on the crossing states of the sait from a candie on the

"With so much use — even aside from jewelry, tableware and coins — there must be quite a lot of silver around," Boraiko writes. He discovered there is and there isn't.

Siver at Joint, Borlanov Hiles, He data Souvere due to "Experimental that in the past 5,000 years we have mined 933,000 tons of silver, three-fourths of in the Western Hemisphere and half of it in the past century," he writes. That seems plenty, yet if all the silver ever mined were divided equally among the world's peo-ple, each would receive only 6,7 ounces, barely enough to make a six-piece place setting of sterling silverware. Actually, the share would be smaller because of the silver lost back to the Earth by way of such missing mage. In the first 50 years of this century people tumbled and lost an estimated 100,000 tons of silver coins. of silver coins.

of silver coins. Silver goes into use and into vaults so widely and rapidly that for decades mines alone have not met the world demand. To make up the difference, old coins, silverware, computer wiring panels, and other silver scrap go into the melting pot.

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