

### England Does Not Need Gulf Stream.

LONDON.—Science has come forward recently to destroy another of man's long cherished illusions, but at the same time it has removed a source of constant anxiety to those who would attempt to understand the causes of climatic conditions. M. Danois, the well-known hydrologist, who has made a special study of the waters of the Atlantic, has declared that the temperate climate of the British Isles and the northern coast of France does not depend on the Gulf Stream, and that its diversion would not therefore leave this section of the world in the grip of an Arctic winter. M. Danois claims to have proved that the Gulf Stream, rising to the north of the Antilles, does not pass the Sargasso Sea, and the notion must be discarded that it traverses the Atlantic to bathe the shores of England and France. He expresses the view that the Gulf Stream is merely the backbone of the equatorial currents. Summer heat provokes dilations of the heavily salted equatorial waters, which translate themselves into permeations of the more lightly salted Arctic and Continental waters. It is these permeations in the eastern Atlantic which have been mistaken for branches of the Gulf Stream. They are, however, purely local currents and vary according to the season.

### Only a Match-Stick.

THAT LITTLE BIT OF WOOD WHICH WE THROW AWAY CAUSED SCIENTISTS MUCH TROUBLE.

Probably no object in everyday use receives less attention than a match-stick; such a simple thing doesn't seem worth bothering about.

Simple it may be, but the perfect match-stick has to satisfy quite a number of conditions, and thousands of chemical and engineering experiments had to be tried before all the requirements were satisfied.

The perfect match-stick must be strong enough not to break when the match is struck. It must hold the chemical "head" securely. The shape and texture should be such that the flame quickly gets a good hold. When the match is blown out the charred stick must not glow, nor must the head drop off.

It must be long enough to burn for a reasonable time without burning the fingers. There must be no danger of splinters entering the fingers. Lastly, the appearance must be attractive—a requirement that is best met by a white wood.

Two woods stand out as specially suitable for match-sticks—white pine and aspen. White pine is a valuable wood, applicable to many uses, whereas aspen is suitable for little else than matches. Aspen, therefore, has been adopted in England and on the Continent.

### Why It Is Square.

After careful consideration it was decided that the best shape for a match is square. A square match is stronger than a round one because there is more wood in it. Moreover a square stalk is the best for holding the head, since there is a larger surface for the chemical paste to grip. Another condition met by the square stick is that of easy ignition, due to the corners catching more rapidly than would a round stick.

It is impossible to form a round splint without compressing the fibres of the wood to some degree, whereas a square stick can be made by splitting, which leaves the material more open in texture—a condition which not only aids combustion, but also allows the stick to absorb the fireproofing solution more readily. The fireproofing prevents the afterglow of the match when the flame has been blown out, and also keeps on the "spent" head.

Cub Cigarettes are appreciated, not only by the smoker but by those in his company.

### Japanese Not White, Says U. S. Law.

Japanese are not white within the meaning of American law and are not entitled to citizenship in the United States, the Supreme Court held on November 14. The High Court affirmed a decision of the California Court of Appeals in a test case brought by Takao Ozawa of Honolulu, who claimed he was "white" and was eligible for naturalization as an American citizen. At the same time the court upheld the State of Washington Supreme Court in denying citizenship to Takuiji Yamasbata and Charles Hio Kono of Seattle. The decision held that the two Japanese were not entitled to naturalization under the United States laws and therefore could not enter a business partnership. The Supreme Court's decision in these cases has long been awaited, particularly on the Pacific Coast, where anti-Japanese feeling exists.

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