# Method to Produce Safer Cigarette Was Found in 60's,

## -but Company Shelved Idec

By PHILIP J. HILTS
Special to The New York Times

--WASHINGTON, May 12 -- Tobacco companies not only knew of the hazants of smoking by the early 1960's had already discovered and patmed a critical step for making a ster cigarette.

The idea was to heat the tobacco maker than burn it, thus avoiding the process that creates most of the hazardous substances in tobacco smoke. The Brown & Williamson Tobacco Corporation, a subsidiary of the London-based British-American Tobacco PLC, put the idea to the test in a cigarette, code-named Ariel, according internal company documents obtained by The New York Times. The pretotype was granted a patent in 1956 but was never marketed.

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The company decided against pressing the safer products toward the market for fear that they would make their other products look bad, according to company documents and interviews with scientists working on the projects. Another likely reason, the documents suggested, was that smokers might find the cigarettes less satisfying and therefore withing the projects.

Thomas Fitzgerald, a spokesman for Brown & Williamson, said:
"From the description given to us, it hopears you are basing your article attorney-client privileged documents that were stolen by a former employee of a law firm that worked for Brown & Williamson. Anybody who knowingly uses stolen information is in fact contributing to an illegal act. We have no further comment."

another early safe eigarette invention was made by Dr. Thomas Mold, assistant director of research for Liggett & Myers, and his colleagues. Dr. Mold said in a telephone interview this week that his group had created a.safer eigarette in research that began in 1955, and that the product was ready for market by 1979.

-Dr. Mold, now retired, said he was told one day in 1979 that there had been a vote of executives in the company, on the advice of lawyers, that the company should not produce a safer cigarette.

"We wrote up the work we had been in a paper for publication, but we were not allowed to publish it," he had. "It describes what we did, how did it and what the results were."

At Philip Morris, one project mended in memorandums and reports the ground of the memorandum of the make a project 0100," an effort to make a predically acceptable" cigarette. The papers were disclosed in lawsuit brought a decade ago by Rose Cipolone, who died from lung cancer before her case was completed. She later became the first person to be awarded damages in a smoking li-

ability case in this country.

According to the Brown & Williamson documents, the Ariel cigarette would have cut down greatly on the pencer-causing substances in cigarette smoke and cut down the amount of secondhand smoke coming from the cigarette. It would have also reflected its potential fire hazard, as there versions of similar products proved.

## House Subcommittee Backs Cigarette Ban

By DAVID E. ROSENBAUM

WASHINGTON, May 12 — A subcommittee in the House of Representatives approved legislation today that would ban smoking in most parts of most buildings open to the public.

This is the most extensive antismoking legislation ever to clear a Congressional panel, but it is unlikely to go further in Congress this year. It was adopted by the Energy and Commerce Committee's Subcommittee on Health and the Environment.

Under the measure, smoking in buildings that 10 or more people enter regularly would be permitted only in rooms with their own separate exhaust systems. The only exceptions would be private homes, private clubs, tobacco shops, bars, restaurants and prisons.

Representative Henry A. Waxman, the California Democrat who heads the panel, called the legislation "a vitally important public health measure" and said, "There is no other legislation before Congress that could do so much good at so little cost."

Mr. Waxman, who has cam-

paigned against smoking for years, said his panell was an especially hard nut to crack because the to-bacco industry had succeeded in arranging for many of its supporters to become members.

ers to become members.

The bill would probably be passed if it got to the floor of the House, but first it must clear the full Energy and Commerce Committee.

That committee has a backlog of major legislation, including President Clinton's health care proposal, renewal of the Superfund program to clean up toxic waste, an overhaul of telecommunications policy and revision of product liability statutes.

The committee's leading opponent of the smoking ban, Representative Thomas J. Billey Jr., a Republican from Virginia, said he did not expect the bill to be taken up this year. Other senior members of the committee agreed with that assessment.

Mr. Waxman acknowledged that he had no commitment from the committee's chairman, John D. Dingell, Democrat of Michigan, that the measure would be considered this year. A vote in the subcommittee on the legislation was delayed twice this spring because Mr. Waxman did not have the votes for approval. It was approved today, 14 to 11, after Mr. Waxman agreed to the exemption for restaurants.

Mr. Waxman said later that he still did not think all restaurants should be exempt and that he hoped to modify the bill at some point so that some restaurants would be included.

### Separate Smoking Rooms

The legislation would permit the owners of buildings open to the public to provide separate smoking rooms with their own exhaust fans. But staff assistants who worked on the bill said they expected that if it became law, most building owners would simply prohibit smoking altogether.

At a Congressional hearing on Wednesday, a similar bill sponsored by Senator Frank R. Lautenberg, Democrat of New Jersey, won support from Surgeon General Joycelyn Elders and from Carol M. Browner, the Administrator of the Environmental Protection Agency.

The Lautenberg bill stands little chance of winning committee approval this year.

The decision at tobacco companies not to proceed with less hazardous cigarettes was complex and much debated internally, experts familiar with the industry say. Some of the feasons include the fear of litigation and the implication that the companies other products were hazardous. In addition, the companies feared the implication that is, the cigarettes would not smell or taste like what smokers were used to, and smokers might not be willing to buy a safer but less satisfying product. These fears later turned out to be justified when R. J. Reynolds introduced its version of the safer cigarette, Premier, which lasted only a short time on the market.

Ariel was developed in the 1960's, and after the early success of the prototype, the company applied in 1954 for a patent, which was granted

The company initially had high hopes for the new cigarette, but in 264, company executives in various memorandums expressed a fear of disclosing too much harmful information about smoking and of subsequent lawsuits. The research already completed on both the hazards of cigarettes and solutions was shelved, and the laboratories of the parent company in England; where much of the

issearch on cigarettes was done, were closed down.

Addison Yeaman, general counsel for Brown & Williamson in the 1960's and later chief of the Council on Tolecco Research, advised company of fixials to be more open about what they knew about the hazards of cigarettes, company documents show, and encouraged them to try to solve in problem of hazards with a less hazardous cigarette rather than with

public relations alone.

In a "strictly confidential" report to tobacco executives, Dr. R. B. Griffith, the chief of research for Brown &

Williamson, discussed research being done at the Tobacco Research Council laboratory in Harrogate, which showed the hazards of cigarettes as well as ways to make less hazardous cigarettes.

Mr. Griffith warned the executives that the sponsoring tobacco companies "may be losing control of the operation of this facility."
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"Most people with whom I talked expressed deep concern over the possible impact of the reports to come from Harrogate," he said. "Their approach seems to be to find ways of obtaining maximum nicotine for minimum tar." He said the work could prompt government regulation in England and have "significant impact on the American tobacco industry."

Soon afterward, research on the hazards of cigarettes and the alternatives was halted at the Harrogate laboratory, memorandums show.

tives was national at the harrogate; laboratory, memorandums show. By Deo. 5, 1968; Dr. R. A. Sanford, a research director of Brown & Williamson wrote to the research directors of the parent company, B.A.T. in London; that there were safer-appearing products that could be made, and products that were actually safer: "There are two types of health products possible and they should be distinguished: (a) Health image (health reassurance cigarette) such as a low tar-low nicotine cigarette which the public accepts as a healthier cigarette, which has minimal biological lactivity; for example, one which would yield a near-zero reading in a mouse skin-painting test."

The company did eventually market low tar and nicotine brands, among them Merit but none of them were as safe as the Ariel cigarette. That project was never revived.

Dr. Gio Gori, a scientist who has worked for tobacco companies and for the Federal Government in a

search for less hazardous cigarettes over the past three decades, said in an interview that less hazardous cigarettes could have been created and put on the market by now.

But he said the blame lay not just with the tobacco companies. If companies had not been constrained by worries over litigation, he said: "They may have solved the problems of a less hazardous cigarette some years ago. Because of the hostility and litigation, making a less hazardous cigarette would imply that the company's other products were hazardous."

"And it is my contention that that if the situation was less hostile between antismoking people and the tobacco industry, we probably would have some much improved cigarettes on the market now," he said. Referring to a program to make a less hazardous cigarette at the National Cancer Institute, which was halted in the late 1970's, he said if it "had been allowed to continue, in 5 to 10 years, we would have solved the problems" of designing a much less hazardous cigarette. Dr. Dietrich Hoffmann, associate

Dr. Dietrich Hoffmann, associate director of the American Health Foundation in New York, a research institute that studies tobacco and health issues, has followed the activities of both industry and the Government since 1958. He also said that others had to share the blame. "Finally, you can blame the producers of the cigarettes for not making a less hazardous cigarette when they might have," he said, "but somewhere along the way our government has slept as well."

The most complete version of a less hazardous cigarette was the Premier

brand briefly marketed by R. J. Reynolds Tobacco Company in 1988. It used the Ariel idea of heating but not burning cigarettes. Premier was soon withdrawn, and company offi-

be marketed, but only under Governthat less hazardous cigarettes should suits against tobacco companies, said cacy group that encourages liability Products Liability Project, an advoand the chairman of the Tobacco sor of law at Northeastern University Dr. Richard A. Daynard, a profes-

our business." may undermine the pre-eminence of "insurance against surprises that He said the safer cigarettes were

come in the future." types on our shelves with more to ready have a number of such proto-"I am pleased to report that we alattractive to the smoker," he went on. same time make a product which is are ever imposed on us and at the less hazardous' specifications if they. to design a cigarette which will meet "We are working to be in a position

develop a 'safe' cigarette." wrote of the "intensitying pressure to rector of Philip Morris at the time, Dr. Helmut Wakeman, scientific di-

lic during the Cipollone trial. less hazardous cigarettes, as a Philip Morris executive noted in a 1978 memorandum, which was made pubtorced by the Government to market panies wanted to wait until they were would be to invite lawsuits. The comardous cigarettes, but the work had been shelved for fear of the effect done substantial research in less haz-By 1978, several companies had

and death might be gained. if substantial reductions of disease health hazards would continue, even the addiction and some substantial ardous cigarettes on the ground that keting of Premier and other less hazgroups have fought against the mar-Over the years, antismoking

smokers objected to. market prematurely, when it had an unusual odor and taste that some cials have said that it was put on the

marketed at all. prevented the product from being regulation, which in turn may have greater safety would bring F.D.A. spont the product," because claims of strained in the claims we could make But he said the company was "conthat carried less risk in the Premier. reached the market with a cigarette that his company had actually tor marketing at R. J. Reynolds, said David Iauco, senior vice president

tine products were." just as the so-called low tar and nicoing opportunities for the companies, these products just become marketsafe? If there is no oversight, then Mr. Ballin said. "Are they really things are what they claim to be," ment review to prove that these "There has to be some Govern-

Covernment oversight. at less hazardous cigarettes without ing to support the industry's attempts cancer and heart disease were unwillbort a product that could cut down on Cronps that might otherwise sup-

review, they ran into a Catgh-22. mit their products to Government be open about their research and subcause companies were not willing to can Heart Association, said that becan Lung Association, and the Ameri-American Cancer Society, the Ameriantismoking group representing the Coalition on Smoking or Health, an Scott Ballin, a spokesman for the

#### A Catch-22

":ettes." provement in the safety of ciga neither of them is a significant im the low-tar and nicotine brands, and the companies market them without regulation," he said, "is that over the past 40 years the companies have already been pretending to sell safe cigarettes — first with filters, then the fowler and microtine breads on the fowler and microtine breads. "The big argument against lettin

ment regulation.