distance for same distance words as long ears to be 14, in-wing-
in-wing-
impossible to t letters long, earlier qualify. WING this task the difference that additional tion requiring FIVE, SEVEN, network. The ting one:

FFIE--five

forty--four

E and THREE, o the idealized and ONE and substitutions in network joining

N-CIPHERED TEXTS

DONALD E. KNUTH
Stanford, California

Some years ago, while doing research on typography, I made a special font of type that obscured the letters in order to study the effects of spacing. Some of my students happened to look at one of my examples, and decided on their own initiative to figure out the words that I thought had been obliterated. To my great surprise, they were not only able to reconstruct a highly complicated and abstruse text, but enjoyed every minute of the task! They were so hooked on the problem they spent the whole night puzzling it out, and the next morning they challenged their friends to do it.

Believing that others might enjoy scratching their heads over this new type of "many to one" cryptogram, I have generated several simple texts which seem especially suited to this kind of game. Here are the alphabets I used, so that you can determine how the letters from A to Z look in capitals and lowercase:

NNNNNNNNNNNNNNNNNNNNNNN

These texts include some quotations by famous statesmen, a few limericks, and a surprise or two. Hint: the first word of the first quote is "To". Answers are given in Answers and Solutions at the end of this issue.

1. ננה ננה ננה ננה ננה ננה ננה ננה ננה ננה ננה ננה ננה ננה ננה ננה ננה ננה ננה ננה ננה ננה ננה

2. ננה ננה ננה ננה ננה ננה ננה ננה ננה ננה ננה ננה ננה ננה ננה ננה ננה ננה ננה ננה ננה ננה ננה

—Nissan N. Nissan

—Nissan N. Nissan
3. It was a sudden and unexpected separation. It was not immediately obvious how the two parts were connected.

4. It was a sudden and unexpected separation. It was not immediately obvious how the two parts were connected.

5. It was a sudden and unexpected separation. It was not immediately obvious how the two parts were connected.

6. It was a sudden and unexpected separation. It was not immediately obvious how the two parts were connected.

7. It was a sudden and unexpected separation. It was not immediately obvious how the two parts were connected.

—Nouna Nounamn Nounamn

8. It was a sudden and unexpected separation. It was not immediately obvious how the two parts were connected.

9. It was a sudden and unexpected separation. It was not immediately obvious how the two parts were connected.

10. It was a sudden and unexpected separation. It was not immediately obvious how the two parts were connected.

—Nouna Nounamn Nounamn

KICKSHAWS

EDWARD R. W( Brookline, Mass. Kickshaws editor. All rights reserved.

Impossible Hugs

The effect of a sudden and unexpected separation of two parts is familiar with a sufficient separation between one and another. It is necessary to consider a particular example, envision a situation in the light of potential audience.

I submit to genetics for a system.

A GNOME is Hilarious.

can be identified to have a combination of jokes.

I argued that this will, by definition, be...

Special Category

Listed under Cambridge Dictionaries, elaborations, Cookery, Dental, Ordnance, Poultry, Shoemaking, particular use.

The following in Webster's responding to a certain Second, together those examples, if