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[1962] [16]p.
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DESCRIPTORS: *Drugs, Therapy, *Sulfonamides, *Dia-
betes, Blood sugar, Reduction, Toxicity.

After oral administration of 3 grams of tolbutamide to
fasting diabetics, a decrease in blood sugar from the
initial value cannot be observed in insulin-deficient
juvenile diabetics. This decline is less than 30% after
administration of tolbutamide (4 hours after adminis-
tration) in those diabetics who are unresponsive to oral
(Biological Sciences--Pharmacology, TT, v. 8, no. 6)
(over)

62-14925

- I. Title: D-860
- I. Pfeiffer, E. F.
- II. Schoffling, K.

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- I. Title: D-860
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- II. Steigerwald, H.

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DESCRIPTORS: *Drugs, *Diabetes, *Sulfonamides,
Pancreas, Cells (Biology), *Insulin, Toxicity.

After a single dose of D 860, the beta cells show pro-
nounced degranulation and loss of insulin. This insulin
loss is compensated 3 hours after D 860 has been ad-
ministered due to new production of the hormone. At
the same time, a maximum increase in nucleus size is
found in the beta cells. The alpha cells participate in
this process, through nucleus size enlargement and
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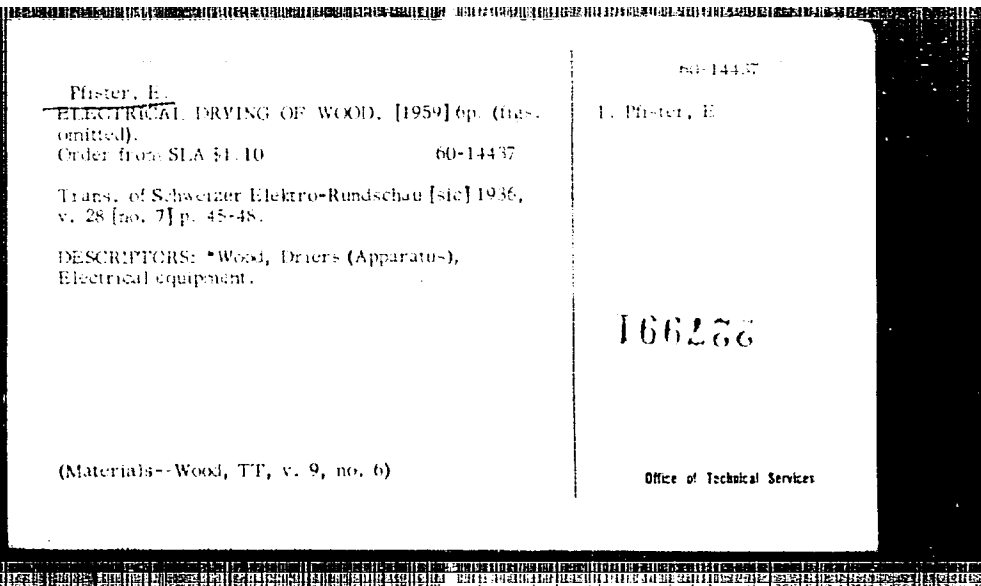
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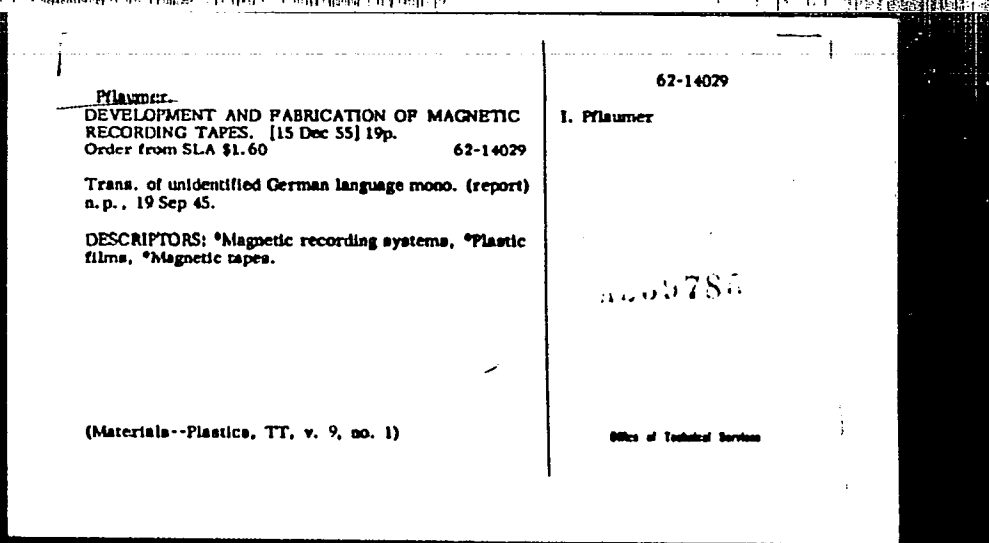
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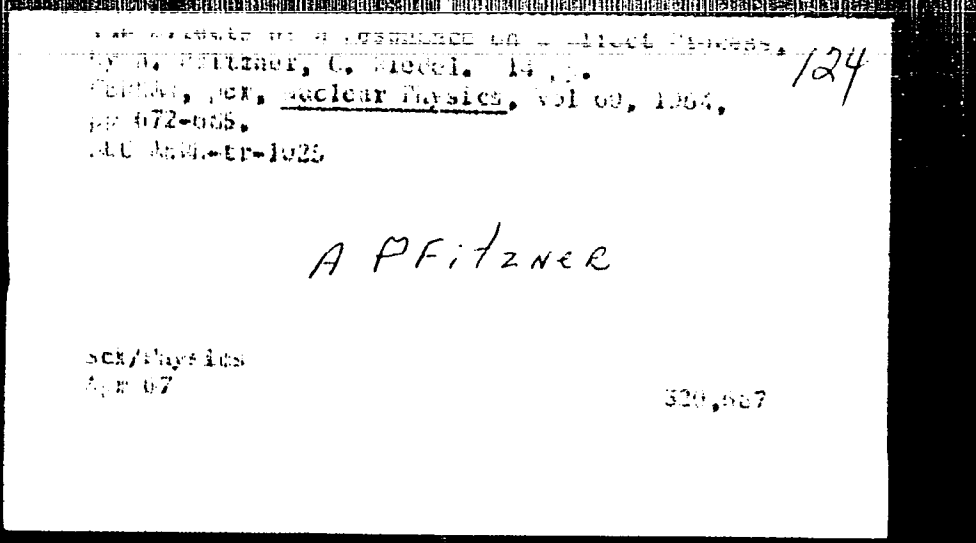
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