## Family FULGORIDA:

## ${ }^{\circ}$ Scolops, Germ.

S. sulcipes.

Fulgora sulcipes, Say, Journ. Acad. Phila. iv, 335.
Common in many parts of the United States, as well east as west of e Mississippi River. The specimens collected by these expeditions ccurred in ${ }^{2}$ Colorado, ${ }^{\vee}$ Utah, Dakota, and ${ }^{L}$ Arizonat. Specimens have cen examined by me which were obtained in Maine, Massachusetts, onnecticut, Rbode Island, New York, ८Iowa, KIllinois, Pennsylvania, hd ${ }^{\prime}$ Minnesota. In Maryland and Virginia, they occur in sedgy and fassy low spots-in the corners of meadows, particularly in places near Soods, in July, Angust, and September.
This species may be known from its allies by the long and very slenor cephalic prominence, acute at tip, by the first ulnar nervure giving three forking branches, and by the second ulnar giving off two fork$g$ branches, and with numerous cross-nervures producing several ries of small areoles adjoining the tip.
Length from tip of head to end of hemelytra, $8_{2}$ to 10 millimeters. ength of cephalic horu, 2 to $2 \frac{1}{2}$ millimeters.
S. hesporitus. New sp.

Straw-yellow or pale brownish, narrower than S. sulcipes. Ceplialic rotuberauce sliorter, broader, not compiressed at tip; rostrum reaching fon the second ventral seginent, the last joint black at tip; sutures of e face nore or less infuscated; postocular process white, with a black ot iuferiorly. Pronotum irrorated with pale brown and white, the des and lateral pieces irregularly, obsoletely tuberculate; tegular Geces minately, confluently punctate. Mesonotum slightly guttate ith pale brown, the apex tamid and emargivate just each side of the otreme tip; metapleura and sternum whitish, Carinate lines of the poxe and legs whitish; the spaces between usually brownish. Heme-
lytra less gibbously convex than iu S. sulcipes, the nervures stoutor, pale, and interruptedly spotted with brown, the first aluar nervure forked beyond the middle, the second ulnar forked before the middle; the apex with but two or three series of cross-nervules; the costal area sometines with two or three eross-nervules at tip; the costal margin very moderately arcuated. Wings milky-white, the nervures brown. Tergum reddish-brown, darker in the center; the margins of tho seg. ments and the counexivun pale-yellow.

Length from tip of head to end of hemelytra, 8 millimeters. Width of pronotum, 24 millineters. Leagth of cephalic horn, $1 \frac{1}{2}$ millimetors: Southern Colorado, C. Thomas; and Denver City, from B. H. Smith. In the specimens which I have examined, there is an entire absence of the large black spot of the sides auteriorly of the pronotum, so couspion uous im S. sulcipes, Say.

## 3. S. grossus. Nev sp.

Shorter and more robust than S. sulcipes; the cephalic horin as long, but much stouter, than in that species; very wide on the upper facc, and the apex blunt and vertically carinate. Sides of protuberance, cheeks, and anterior pleural pieces infuscated, guttate with whitish, the lateral keels distinctly sinuate a little distance in front of the eyes; ros? trum tipped with black, reaching almost to the genital segment. Pros notum curved toward the front more narrowly than in S. sulcipes; the geminate indentations present, but not black; the sides a little granus lose. Mesonotun short and broad, the apex feebly tumid; femora more or less dotted with brown; bemelytra short and wide, strongly arcuated, more oblique at tip than in ${ }^{\circ}$ S. sulcipes, clouded with browu, and with a few pale transverse patches across the corium; the nervures thick, remotely and irregularly spotted with fuscous; the first aud second ulnar nervures forked on the same line just before the middle of the corium; the apical cross-nerrules very few, and the costal area with four or five cross-nervules near the tip. Wings smoky.brown, with the nervures darker; tergom more or less orange, shaded with fuscous. "

Length from tip of head to end of hemelytra, 8 to $8 \frac{1}{2}$ millimeters; Width of pronotum, 2 millimeters; lengih of ceptalic horn, $2 \frac{1}{2}$ millis meters.

Collected in Texas by G. W. Belfrage.
4. S. angustatus. New sp.

More slender than either of the species described; the hemelstra almost flat above, hardly gibbous on the sides; head more or less orange: yellow, with the face, sides of protuberauce, and ridges of the froitt brownish; cephalic horn very short and narrow, but blunt at tip; crat nium with two black, impressed dots between the eyes; rostrum reachs ing to the end of the fourth ventral segment, yellow, black at tip, the lobes behind the eyes with a small black dot. Pronotum with an arcus ated series of indented black points, the lateral margins obliquely curved toward the head; pale, grooved, and brown bebind the eyes, and with the carinate edge whitish. Mesonotum varied with brown, and with a series of black, indented points across it, the tegular pieces a little coufluently punctate; pleura washed with pale brown and flecked with dark brown ; legs flecked with fuscous, the tibie with two or moro dark, bind-like shades; hemely tra infuscated, moderately flat, the costal margin very feebly arcuated, a broad longitudinal vitta extending to tho tip, a strals on the suture of the clavus, several coalescing spots ruming
ack from the apex interiorly, and the interrupted flecks on the uervures ark brown; the costal area whitish throughont, nervures stout, the first Inar nervure forked considerably behind the middle, and the secoud luar forked at a little distauce behind the middle. Wings smoky, the ervures darker. Disk of tergun black, with the sides orange-yellow. enter faintly brownish, flecked with yellowish.
Length from tip of hear to end of hemelstra, 7 to 8 millimeters: idth of pronotum, $2 \frac{1}{4}$ to $2 \frac{1}{2}$ millimeters. Leugth of cephalic horn, $1 \frac{1}{2}$ illimeters.
InLabits Nebraska, Dakota, Iowa, Massachusetts, and Connecticut."

Sumplaing DELPHACINA.
vittatifions. New sp.
Elongate-oval, pale greeu, bald, and polished. Apex of the head nuidly conical; cranium minutely, obsoletely punctate on the sides; te cranial shield triangular in front, so caused by the converging of the ateral cariux; central cariua high and thick, the lateral ones very bigh ad divaricating anteriorly; the frout oblique, depressed, banded twice fith orange or rufous; the pair of central carinæ high, curving apart, bbreviated before the epistoma; the epistoma piceous or rufo-piceous at ase; rostrum jellowish, piceous at tip, reaching to the tip of the internediate coxac. Eyes large, horizontal, subreniform, pale brown; anten\& greenish; the scapus and basal joint subequal, the former with a road black line, the latter with two black lives and an anterior ring; feond joint longer than the two former, with two black lines. Pronoam short, truncate in front, sinuate on the posterior margin, the cenral line and an oblique one each side carinated, the lateral edge sinuted to receire the tegulæ; tegulæ very minutely punctured. Meso. ternum longer than the pronotum, with five carinated lines, the lateral pues a little curved, and the apex slightly elevated. Legs green; the emora and tibæ, excepting the posterior pair, lineated with black, and vith the tips of the spines, the nails, a broad hand near the tip of the nuterior tibix, and a large spot on each anterior coxa, black; hemelytra ong and narrow, obliquely rounded at tip, yellowish-green, the mervures traight and wide apart, witb only two or three cross-nervules near the ip; the radial nervure forked at the middle, the first and second ulnars orked near the tip. Wings white; tergum sometimes infuscated on the disks of the segments. Allus of the temale armed with a long, acute bylet; both sexes with a few long bristles at the apex of the venter; emelyfra of the wale with five longitudinal cells at the apex; the infefior genital segment divided into tro curved, very acute, piceous hooks, and the anus with a still longer stylet than in the other sex.
Leugth to tip of hemelytra, 5 to $8 \frac{1}{2}$ millimeters. Width of pronotum, $\frac{1}{2}$ to 2 millimeters.
Inbabits Dakota, collected by Mr. Rothauer; Ininois, Robert Kenpicott. It also occurs abundantly upou the salt-marshes of the seacoasts of Maryland and New Jerses, living among the long, stiff grass. When fresh and not weather beaten, it is of a vivid light greeu, but Then old and weathered it becomes soiled yellow in color. It would be interesting to kuow if this species belongs to places in the West which were origiually the beds of salt-lakes. The salt-marshes of Eastern Massachusetts have thus far failed to yield any specimeus of it.

