

**UNITED STATES DISTRICT COURT
NORTHERN DISTRICT OF ILLINOIS**

HUGUETTE DEBETS, as Special)	
Administrator of the Estate of)	
JACKSON MUSONI, deceased,)	
)	
)	No.
Plaintiff)	
)	
v.)	
)	
THE BOEING CO., an Illinois corporation,)	
)	
Defendant.)	

COMPLAINT AT LAW

The Plaintiff, HUGUETTE DEBETS, as Special Administrator of the Estate of JACKSON MUSONI, on behalf of the Decedent, his estate, survivors, beneficiaries, and heirs hereby files this Complaint at Law against the Defendant, The Boeing Company, and Illinois corporation, and in support alleges:

INTRODUCTION

1. This is an action for damage pursuant to the Illinois Wrongful Death Act, 740 Ill. Comp. Stat. 180/1 *et seq.*, and the Illinois Products Liability Act, 735 Ill. Comp. Stat. 5/13-213, or any other applicable law, based on a defective design, and concomitant inadequate warnings, of the Boeing 737 MAX 8.

2. A brand new Boeing 737 MAX 8 commercial aircraft, registration ET-AVJ (the “subject aircraft”), operated by Ethiopian Airlines as scheduled passenger flight Ethiopian Airlines flight 302 from Addis Ababa Bole International Airport, Ethiopia, to Jomo Kenyatta International

Airport in Nairobi, Kenya (the “subject flight”), crashed shortly after takeoff on March 10, 2019, killing everyone on board (the “subject accident”).

3. The subject aircraft had been manufactured by Boeing in 2018 and newly delivered to Ethiopian Airlines in November of 2018.

4. The subject accident occurred because, among other things, Boeing defectively designed a new flight control system for the Boeing 737 MAX 8 that automatically and erroneously pushes the aircraft’s nose down, and because Boeing failed to warn of the defect.¹

JURISDICTION AND VENUE

5. This Court has subject matter jurisdiction over this controversy. The Plaintiffs elect to pursue all maritime claims in this Court under the Savings-to-Suitors Clause, 28 U.S.C. § 1333.

6. Boeing is and has, at all relevant times, been a citizen and resident of the State of Illinois because it maintains its principal place of business in Illinois. At all relevant times, Boeing has been authorized to do business, and has been transacting or conducting business, in the State of Illinois. *See* 735 Ill. Comp. Stat. 5/2-209(b)(4).

7. Venue is proper in Cook County, Illinois, because Boeing resides in Cook County. Boeing has an office in Cook County and has, at all relevant times, conducted business there.

¹ The Plaintiffs also intend to assert claims against the United States Federal Aviation Administration (“FAA”) under the Federal Tort Claims Act, 28 U.S.C. § 2674, after exhausting their administrative remedies under 28 U.S.C. § 2675, which affords the government six months to resolve the matter administratively. The Plaintiffs’ claims against the FAA arise out of the agency’s negligence in certifying the 737 MAX 8, including the subject aircraft, by not requiring Boeing to provide sufficient data and testing to support the changes from the 737 series to the 737 MAX series; by delegating too much regulatory authority to Boeing over its own planes; by failing to require the testing, pilot training, and manual updates that should have been required for the new 737 MAX 8 under the FAA’s own mandatory rules and protocols; by failing to require Boeing to apply for and obtain a new type certificate for the 737 MAX 8; and for otherwise failing to follow its own established rules and protocols, which required Boeing to comply with more rigorous safety standards.

THE PARTIES

8. At all relevant times, the Plaintiffs were and are Dutch citizens and residents of Belgium.

9. At all relevant times, the Decedent, Jackson Musoni, was a Rwanda citizen and resident of Dafur.

10. The Decedent's only surviving heirs are:

- a. Asa Shima Musoni, minor child of decedent;
- b. Amayah Peace Gaju Musoni, minor child of decedent; and
- c. Neza Leylani Debets, minor step-child of decedent

11. The Defendant, The Boeing Company (also referred to as "Boeing"), was and is a corporation that is domiciled in, is a resident of, and has its principal place of business in Cook County, Illinois.

12. At all relevant times, Boeing was engaged in the business of designing, manufacturing, integrating, assembling, modifying, maintaining, inspecting, testing, servicing, marketing, and distributing aircrafts and their component parts, including the subject aircraft.

FACTS COMMON TO ALL COUNTS

Boeing 737 MAX 8 background

13. Boeing's 737 MAX is its best-selling model ever, with over three hundred 737 MAX 8s registered around the world. The 737 MAX 8 model is part of Boeing's 737 MAX series, the newest generation of 737 series aircraft, which Boeing initially designed in the United States decades ago.

14. Two U.S.-based airlines, Southwest Airlines and American Airlines, are the heaviest users of 737 MAX 8s in the world (along with Air Canada, which also uses the 737 MAX

8 on flights into/out of the United States). The aircraft frequently operates popular U.S. routes, including Miami to Los Angeles, Houston to Denver, and San Francisco to Portland.

The manufacture and sale of the subject aircraft

15. Prior to the date of the subject accident, Boeing designed the subject aircraft, along with its component parts, in the United States.

16. At all relevant times, the United States Federal Aviation Administration (“FAA”) approved the design of the 737 MAX 8 model aircraft.

17. The FAA delegated to Boeing authority to approve portions of the amendment certification process, including the system safety analysis.

18. At all relevant times, Boeing marketed, manufactured, produced, assembled, and sold the subject aircraft in the United States.

19. Boeing represents that the subject aircraft is airworthy, safe, reliable, and fit for its intended purposes.

20. In or around November of 2018, Boeing delivered the newly manufactured subject aircraft to Ethiopian Airlines in Indonesia.

21. Boeing sold and delivered the subject aircraft to Ethiopian Airlines, knowing that the subject aircraft would be used by Ethiopian Airlines for commercial flight operations, including scheduled passenger flights.

22. At all relevant times, the subject aircraft was sold and delivered by Boeing without being altered by some other party and without substantial change in the condition in which it was sold and delivered, and it was being used as intended by, or in a manner that was reasonably foreseeable to, Boeing.

23. Ethiopian Airlines in fact flew and used the subject aircraft for its normal and intended use: commercial aviation.

The Boeing 737 MAX 8 differs from previous models

24. When it launched in 2016, the 737 MAX was meant to be Boeing's best weapon in its war for market share with European rival Airbus.

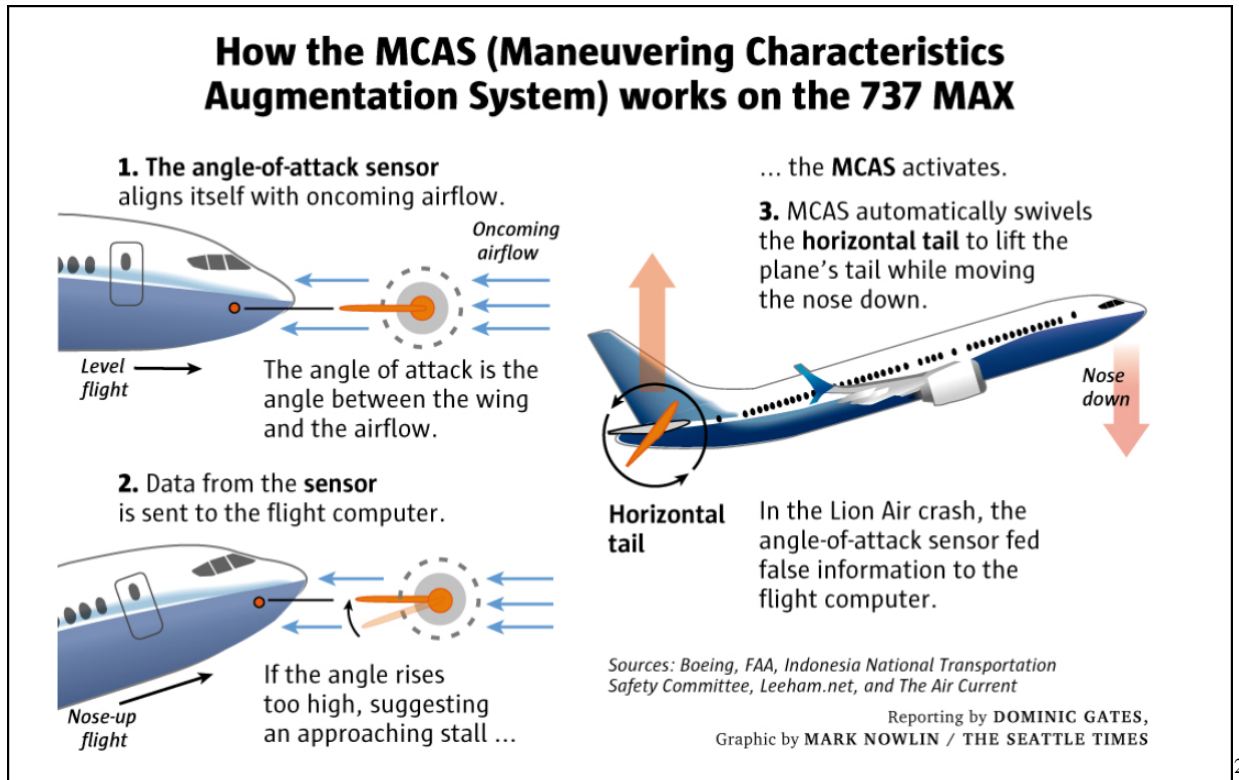
25. In 2015, as Boeing hustled to catch up to Airbus and certify its new 737 MAX, FAA managers pushed the agency's safety engineers to delegate safety assessments to Boeing itself, and to speedily approve the resulting analysis. But the original safety analysis that Boeing delivered to the FAA for a new flight control system on the MAX—a report used to certify the plane as safe to fly—had several crucial flaws.

26. The Boeing 737 MAX 8 uses a system called MCAS—Maneuvering Characteristics Augmentation System—which is supposed to stabilize the aircraft in flight. Boeing added MCAS after redesigning its 737 platform for the MAX.

27. The redesign of the 737 changed the size and placement of the aircraft's engines, which altered how the jet handled in flight. With the MAX 8, Boeing introduced a new generation of engines with much more power. The engines are also heavier, a factor that influences the airplane's aerodynamic balance. At low speeds, there is a marked difference in the behavior of the MAX 8 airplane when compared with previous versions of Boeing's 737.

28. Because of the new size and placement of the aircraft's engines on the 737 MAX 8, the aircraft tends to raise its nose in flight, a movement called pitch. If an aircraft pitches too high, it risks stalling and crashing.

29. The aircraft's MCAS is supposed to compensate for that pitch problem by automatically lowering the nose without pilot input. The system is constantly fed data from two wing-like devices called angle of attack sensors, located on the plane's nose.



30. If the angle of attack sensors detect that the plane is pitching too high, the MCAS automatically adjusts the tail's stabilizer—the horizontal part of the tail—to level out the plane. In other words, the MCAS activates automatically (i.e., without the input of the pilot) to push the plane's nose down.

31. Rather than rely on multiple sensors, the 737 MAX 8 relies only on the angle of attack sensors. However, if the angle of attack sensors feed faulty or contradictory data to the MCAS, the system can force the aircraft into an unwarranted dive.

² See <https://www.seattletimes.com/business/boeing-aerospace/failed-certification-faa-missed-safety-issues-in-the-737-max-system-implicated-in-the-lion-air-crash/>.

32. An undesired and unwarranted dive, of course, is never safe. But at low altitudes, the problem is particularly dangerous because it makes it far less likely that pilots can fix the problem and recover from the steep dive before crashing.

33. Electric trim control on the yoke may temporarily stop the MCAS-driven stabilizer movement. But the MCAS will activate again within a few seconds—forcing the nose down again—after the switches are released if the angle of attack is still sensed too high.

34. Early on in the certification of the 737 MAX, the FAA safety engineering team divided up the technical assessments that would be delegated to Boeing versus those that would be retained within the FAA. But, as certification proceeded, FAA managers urged its technical experts to speed up the process. Development of the MAX was lagging nine months behind the rival Airbus A320neo. Time was of the essence for Boeing. So, throughout the certification process, FAA technical experts were pressured by their superiors to delegate more and more authority to Boeing. In this atmosphere, the “System Safety Analysis” on the MCAS was delegated to Boeing.

35. Boeing engineers authorized to work on behalf of the FAA developed the System Safety Analysis for the MCAS, a document which, in turn, was shared with foreign air safety regulators in Europe, Canada, and elsewhere in the world. The document contains several flaws.

36. Boeing’s original System Safety Analysis of the MCAS understated the power of the MCAS, which was designed to swivel the horizontal tail to push the nose of the plane down to avert a stall. When the planes later entered service, it became clear that the MCAS was capable of moving the tail more than four times farther than was stated in the original safety analysis document. Specifically, the limit to how much the system could move the tail turned out to be 2.5 degrees, rather than a 0.6 degree limit as set out in the description Boeing provided to the FAA.

37. Boeing knew that the limit was higher than that specified in the original safety analysis document before the subject aircraft entered service. Safety analyses are required to be updated to reflect the most accurate aircraft information following flight tests. The numbers should match whatever design was tested and fielded, but Boeing's final safety analysis was not updated to reflect the accurate limit and still contained the 0.6 limit.

38. The System Safety Analysis also failed to account for how the system could reset itself each time a pilot responded, thereby missing the potential impact of the system repeatedly pushing the airplane's nose downward. In other words, the 2.5-degree limit applies *each time* MCAS is triggered, and it can be triggered multiple times, compounding the power of the MCAS to send the plane into an unrecoverable dive. Every time pilots reset the switches on their control columns to pull the nose back up, MCAS would have kicked in again, allowing new increments of 2.5 degrees until the stabilizer was moved to a position that would cause the maximum possible push downward. At a limit of 2.5 degrees, two cycles of MCAS without correction would have been enough to reach the maximum nose-down effect. Put simply, the MCAS had unlimited authority to push the plane's nose down.

39. The System Safety Analysis was also flawed in the way it assessed a potential failure of the MCAS system. As explained above, the MCAS relied on only one sensor system—the angle of attack sensor—to determine whether to activate. Whether a system on a jet can rely on one sensor input, or must have two, is driven by the failure classification system in the system safety analysis. Virtually all equipment on any commercial airplane, including the various sensors, is reliable enough to meet the “major failure” requirement, meaning that it could cause physical distress to people on the plane, but not death, and that the probability of a failure is less than one in 100,000. Such systems are therefore typically allowed to rely on a single input sensor. But when

the consequences are assessed to be more severe—either “hazardous failures” causing serious or fatal injuries to a small number of passengers or “catastrophic failures” causing the loss of the plane with multiple fatalities—a system must have multiple input channels in case one goes wrong.

40. Boeing’s System Safety Analyses assessed an MCAS failure as either a “major failure” or, sometimes, a “hazardous failure,” in cases where the plane is in an extreme maneuver. Boeing knew or should have known that the failure to classify the MCAS’s failure as catastrophic, and thereby include the necessary checks and redundancies, was likely to lead to injuries and deaths. Moreover, the MCAS did not even meet the requirements for a system with a hazardous failure rating. Despite the MCAS’s assessment as a hazardous failure, it depended on the reading from a single angle-of-attack sensor (i.e., without any redundant input or check). Boeing could have designed the system to compare the readings from two angle-of-attack vanes, which would have indicated if one of them was faulty, but instead, the MCAS was designed to take a reading from only one of them. Alternatively, the system could have been designed to check that the angle-of-attack reading was accurate while the plane was taxiing on the ground before takeoff, when the angle of attack should read zero. But Boeing did not design or integrate these measures to ensure the MCAS would only activate in response to an accurate reading.

41. On the date of the subject accident, Boeing had not included a description of the MCAS in the flight crew operations manual (FCOM), which governs the master description of the aircraft for pilots. In other words, Boeing did not even notify pilots that the MCAS was operating on the MAX. It did not warn pilots that in certain circumstances it might cause the airplane to pitch down or force the airplane into a cycle of repeated dives. Nor did Boeing provide pilots with information about how to react to an MCAS that is forcing unwarranted and/or repeated dives.

42. Boeing's stance that the pilots did not need to know about the MCAS or be trained to use the new system allowed the MAX to earn a common "type rating" with existing 737 models, allowing airlines to minimize training of pilots moving from previous generations of the 737 series to the MAX. Minimizing MAX pilot transition training was an important cost saving for Boeing's airline customers, a key selling point for the jet.

The defective design, inadequate warning, and unreasonably dangerous conditions

43. At the time the subject aircraft left the custody and control of Boeing, at which point it entered the stream of commerce, and by and through the actions or omissions of Boeing, the subject aircraft was defective in design, had inadequate warnings, and was unreasonably dangerous in the following ways, among others:

- a. the subject aircraft's automated flight control system, which is new and unique to the 737 MAX series, causes the aircraft to dive down automatically towards the ground in situations where such dives are unwarranted, unreasonably dangerous, and erroneous;
- b. the subject aircraft's electrical and computer components erroneously and automatically force the nose of the airplane down, causing it to dive, even when the aircraft is being flown manually by pilots;
- c. the subject aircraft's flight control system incorrectly and automatically operates the aircraft in such a way as to cause excessive nose-down inputs and significant altitude loss;
- d. the subject aircraft's sensors are defective and generate false readings, including false readings related to the aircraft's angle of attack—the angle between the wing and the oncoming airflow—which triggers the aircraft's automated flight management and control systems to push the aircraft's nose downward;
- e. the subject aircraft's lack of redundancies in its sensors renders it unreasonably dangerous because minor inputs and minor errors can force the aircraft into an uncontrollable nosedive;
- f. the subject aircraft's defective sensors and flight control system cause the aircraft's control yolk to feel different from the yolks used for training the users of the 737 series, which cause the subject aircraft's pilots to be confused and unable to correct the subject aircraft's automatic dive;

- g. Boeing failed to warn the airlines, pilots, users, and intended third-party beneficiaries of the defective automation that causes the subject aircraft to dive, Boeing failed to warn of the defective sensors, and Boeing failed to warn and educate users on possible manual overrides to the subject aircraft's defective system; and
- h. Boeing failed to adequately test the subject aircraft, its flight control system, and its sensors, and Boeing failed to substantiate the changes to its previous 737 models with sufficient testing and data.

44. At all relevant times, Boeing failed to warn the public, the airlines, the pilots, the users, and the intended third-party beneficiaries of the 737 MAX 8's unreasonably dangerous and defective design, including that the aircraft automatically and uncontrollably dives.

45. At all relevant times, the subject aircraft failed to perform in a manner reasonably expected given its nature and intended purpose, as alleged herein.

46. The subject aircraft was not reasonably safe as designed. At the time of its manufacture, the likelihood that the subject aircraft would cause injury or death to passengers aboard the subject aircraft, including the Decedent, and considering the seriousness of the harm, outweighed the burden on Boeing of designing the subject aircraft in a way that would have prevented those harms, including the burden of issuing adequate warnings of such defects.

Pilots in the United States warned the FAA about Boeing 737 MAX 8 safety flaw

47. Pilots flying the Boeing 737 MAX 8 have repeatedly voiced safety concerns about the aircraft to federal authorities in the United States. The pilots' complaints are available in a federal database where pilots can voluntarily report about aviation incidents without disclosing their name or employer.³

48. In October 2018, a Boeing 737 MAX 8 captain reported that the autothrottles on the aircraft failed to move to the commanded position after takeoff and climb. The pilot explained

³ See <https://www.dallasnews.com/business/airlines/2019/03/12/boeing-737-max-8-pilots-complained-feds-months-suspected-safety-flaw>.

that after the aircraft had climbed to 1000 feet, he or she noticed a decrease in aircraft performance. The plane failed to climb, even though the autothrottles were engaged, and the pilot resolved the issue by manually positioning the thrust levers:



49. In November 2018, another Boeing 737 MAX 8 captain expressed frustration that some systems, including the MCAS (Maneuvering Characteristics Augmentation System) are not fully described in the Flight Manual for the Boeing 737 MAX 8, which the pilot described as “inadequate and almost criminally insufficient.” The pilot complained that it was “unconscionable” that Boeing and the FAA allowed pilots to fly the planes without adequate training or fully disclosing the information about how its systems were different from those on previous 737 models:



50. In November 2018, a Boeing 737 MAX 8 first officer reported an altitude deviation due to an intermediate level off by the aircraft auto-pilot system. The flight crew was forced to intervene, but because of the delay in achieving the correct altitude, Air Traffic Control issued brief off-course vectors to the pilots and other aircraft in the area.



51. The same month, another Boeing 737 MAX 8 first officer reported that the aircraft had pitched nose down after the autopilot was engaged on departure. The GPWS (Ground Proximity Warning System)—the system designed to alert pilots if their aircraft is in immediate danger of flying into the ground or an obstacle—sounded, warning the pilots with the alert, “don’t sink, don’t sink.” The captain was able to avoid catastrophe by immediately disconnecting the autopilot and pitching the aircraft into a climb. The first officer wrote that he could not “think of any reason the aircraft would pitch nose down so aggressively”:

Day 3 of 3 departing in a MAX 8 after a long overnight. I was well rested and had discussed the recent MAX 8 MCAS guidance with the Captain. On departure, we had strong crosswinds (gusts > 30 knots) directly off the right wing, however, no LLWS or Micro-burst activity was reported at the field. After verifying LNAV, selecting gear and flaps up, I set "UP" speed. The aircraft accelerated normally and the Captain engaged the "A" autopilot after reaching set speed. Within two to three seconds the aircraft pitched nose down bringing the VSI to approximately 1,200 to 1,500 FPM. I called "descending" just prior to the GPWS sounding "don't sink, don't sink." The Captain immediately disconnected the autopilot and pitched into a climb. The remainder of the flight was uneventful. We discussed the departure at length and I reviewed in my mind our automation setup and flight profile but can't think of any reason the aircraft would pitch nose down so aggressively.

52. In November 2018, yet another Boeing 737 MAX 8 pilot reported an autopilot issue with the aircraft, which led to an undesired nose down situation shortly after takeoff. The GPWS sounded, warning the pilots that they were in immediate danger of flying into the ground, but the pilot was able to save the aircraft by disengaging the autopilot:

Wind and mechanical turbulence was noted. Careful engine warm times, normal flaps 5 takeoff in strong (appeared almost direct) crosswind. Departure was normal. Takeoff and climb in light to moderate turbulence. After flaps 1 to "up" and above clean "MASI up speed" with LNAV engaged I looked at and engaged A Autopilot. As I was returning to my PFD (Primary Flight Display) PM (Pilot Monitoring) called "DESCENDING" followed by almost an immediate: "DONT SINK DONT SINK!"

I immediately disconnected AP (Autopilot) (it WAS engaged as we got full horn etc.) and resumed climb. Now, I would generally assume it was my automation error, i.e., aircraft was trying to acquire a miss-commanded speed/no autothrottles, crossing restriction etc., but frankly neither of us could find an inappropriate setup error (not to say there wasn't one).

53. In an interview with the New York Times, Dennis Tajer, a pilot and spokesperson for the Allied Pilots Association, explained, "An aircraft dipping after takeoff is not normal. It's beyond abnormal. It's unacceptable."⁴⁴

Ethiopian Airlines flight 302

⁴⁴ See <https://www.nytimes.com/interactive/2018/12/26/world/asia/lion-air-crash-12-minutes.html>.

54. On March 10, 2019, Ethiopian Airlines was operating the subject aircraft on a scheduled passenger flight from Addis Ababa, Ethiopia, to Nairobi, Kenya. At or around 8:38 a.m. local time (5:38 a.m. UTC), the subject flight departed.

55. Approximately one minute into the flight, the pilot reported a “flight control” problem, and asked for clearance to return to Addis Ababa, which he was granted.

56. Preliminary flight tracking data shows that the subject aircraft was experiencing unstable vertical speed after takeoff, fluctuating altitude and rate of climb and descent, and unsafe acceleration, none of which is normal during takeoff, and all of which was eerily similar to the recent crash of Lion Air flight 610.

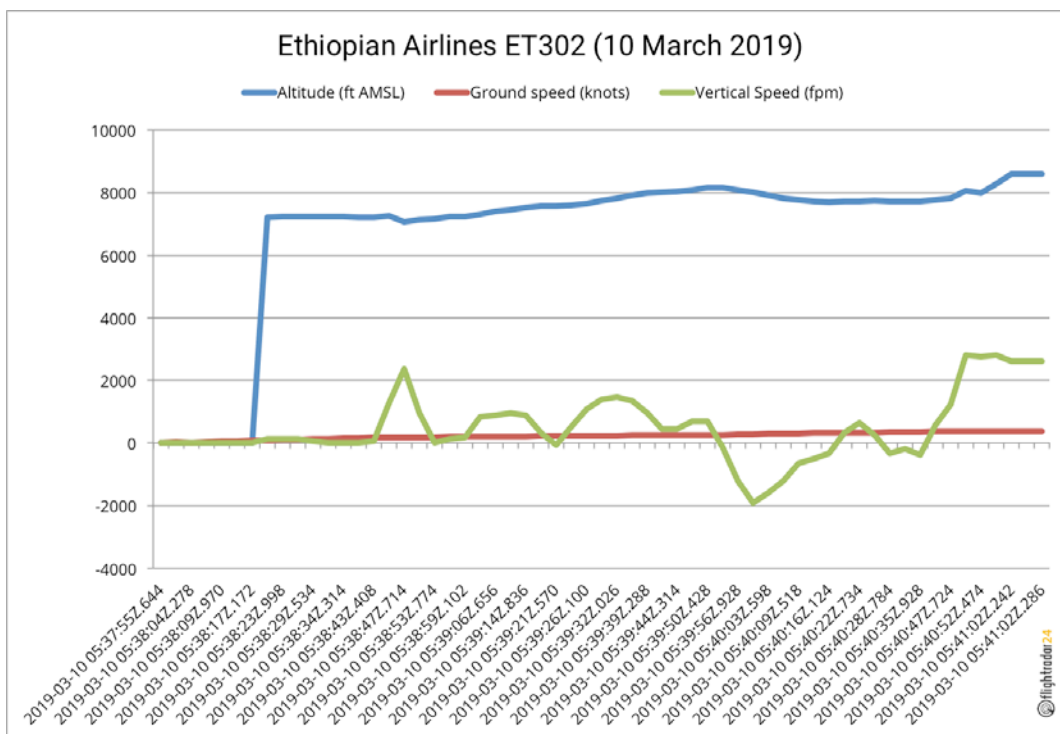
57. Flight control lost contact with the subject aircraft around 8:44 a.m. local time, at which point the subject aircraft crashed near the town of Bishoftu, near Addis Ababa.

58. Upon information and belief, the subject aircraft crashed because, outside the plane, one of the subject aircraft’s angle of attack sensors falsely indicated that the plane’s nose was pointed too high, and that the aircraft could stall.

59. Upon information and belief, this false angle of attack reading triggered the automatic MCAS, which pushed up the forward edge of the stabilizers on the plane’s tail and forced the plane’s nose down. The pilots responded by moving the stabilizers in the opposite direction, trying to lift the plane’s nose back up, but the pilots lost the fight to the 737 MAX’s automated system

60. The following graph provided by the website [flightradar24.com](https://www.flightradar24.com) illustrates the flight’s erratic altitude and vertical speed before crashing:⁵

⁵ See <https://www.flightradar24.com/blog/flightradar24-data-regarding-the-crash-of-ethiopian-airlines-flight-302/>.



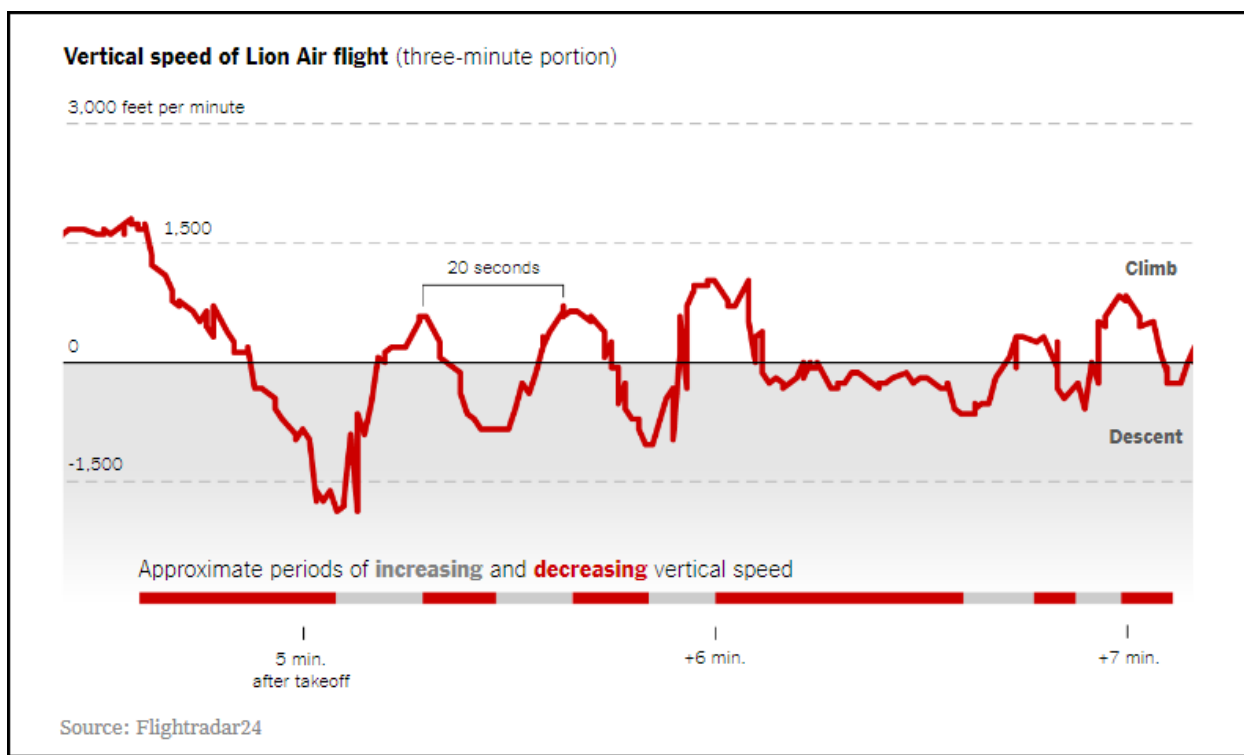
61. The Decedent was on board the subject flight.

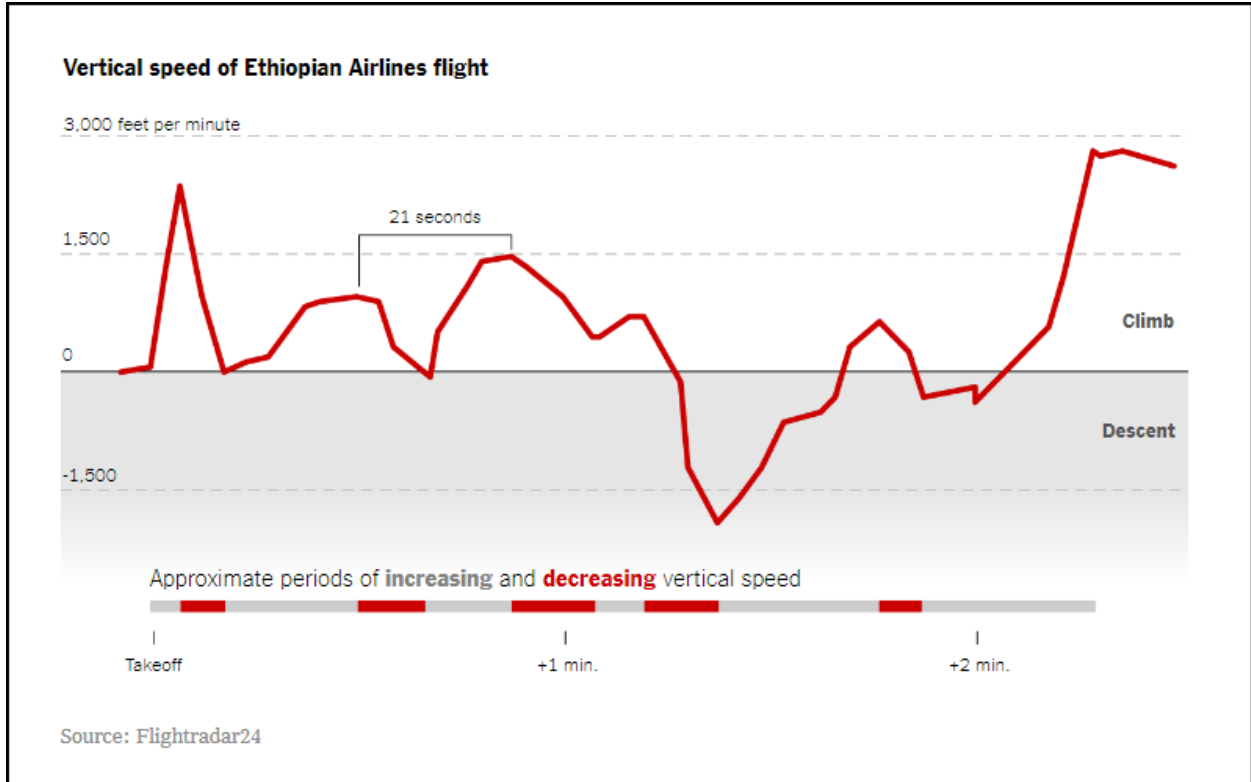
62. As a direct and proximate result of the defects alleged herein, the subject aircraft crashed and killed the Decedent.

63. The original Boeing document provided to the FAA included a description specifying a limit to how much the system could move the horizontal tail—a limit of 0.6 degrees, out of a physical maximum of just less than 5 degrees of nose-down movement. The limit was later increased after flight tests showed that a more powerful movement of the tail was required to avert a high-speed stall, when the plane is in danger of losing lift and spiraling down. After the subject accident, Boeing for the first time provided to airlines details about the MCAS. Boeing's bulletin to the airlines stated that the limit of MCAS's command was 2.5 degrees. The number was apparently new to FAA engineers who had seen 0.6 degrees in their safety assessment. The higher limit meant that each time MCAS was triggered, it caused a much greater movement of the tail than was specified in the original safety analysis document.

64. The subject accident also demonstrated that the MCAS can be triggered multiple times, and because the MCAS reset each time it was used, it effectively had unlimited authority to give the airplane's nose the maximum possible push downward. At a limit of 2.5 degrees, two cycles of MCAS without correction would have been enough to reach the maximum nose-down effect.

65. The subject accident was similar to the crash of Lion Air flight 610. Compare the following two graphs:





66. This preliminary data indicates that the two planes may have experienced the same malfunctioning automated system—an unwarranted activation of the MCAS.

67. Following the Lion Air flight 610 accident, the FAA issued “Emergency Airworthiness Directive (AD) 2018-23-51” to the “owners and operators of The Boeing Company Model 737-8 and -9 airplanes,” which contained mandatory warnings and instructions regarding the “unsafe condition . . . likely to exist or develop” in the 737 MAX 8.

68. In the days following the crash of Ethiopian Flight 302, and at the time of the filing of this Complaint, all countries have grounded Boeing 737 MAX 8 aircraft from continued flights.

CAUSES OF ACTION

COUNT I STRICT PRODUCTS LIABILITY

69. The Plaintiffs re-adopt and re-allege paragraphs 1 through 68 above.

70. At all relevant times, the subject aircraft was sold and delivered by Boeing without being altered by some other party and without substantial change in the condition in which it was sold and delivered, and it was being used as intended by, or in a manner that was reasonably foreseeable to, Boeing.

71. At the time the subject aircraft left the custody and control of Boeing, at which point it entered the stream of commerce, and by and through the actions or omissions of Boeing, the subject aircraft was defective in design, had inadequate warnings, and was unreasonably dangerous in the following ways, among others:

- a. the subject aircraft's automated flight control system, which is new and unique to the 737 MAX series, causes the aircraft to dive down automatically towards the ground in situations where such dives are unwarranted, unreasonably dangerous, and erroneous;
- b. the subject aircraft's electrical and computer components erroneously and automatically force the nose of the airplane down, causing it to dive, even when the aircraft is being flown manually by pilots;
- c. the subject aircraft's flight control system incorrectly and automatically operates the aircraft in such a way as to cause excessive nose-down inputs and significant altitude loss;
- d. the subject aircraft's sensors are defective and generate false readings, including false readings related to the aircraft's angle of attack—the angle between the wing and the oncoming airflow—which triggers the aircraft's automated flight management and control systems to push the aircraft's nose downward;
- e. the subject aircraft's lack of redundancies in its sensors renders it unreasonably dangerous because minor inputs and minor errors can force the aircraft into an uncontrollable nosedive;
- f. the subject aircraft's defective sensors and flight control system cause the aircraft's control yolk to feel different from the yolks used for training the users of the 737 series, which cause the subject aircraft's pilots to be confused and unable to correct the subject aircraft's automatic dive;
- g. Boeing failed to warn the airlines, pilots, users, and intended third-party beneficiaries of the defective automation that causes the subject aircraft to dive, Boeing failed to warn of the defective sensors, and Boeing failed to warn and

educate users on possible manual overrides to the subject aircraft's defective system; and

- h. Boeing failed to adequately test the subject aircraft, its flight control system, and its sensors, and Boeing failed to substantiate the changes to its previous 737 models with sufficient testing and data.

72. At all relevant times, Boeing failed to warn the public, the airlines, the pilots, the users, and the intended third-party beneficiaries of the 737 MAX 8's unreasonably dangerous and defective design, including that the aircraft automatically and uncontrollably dived partly because of erroneous sensors.

73. At all relevant times, the subject aircraft failed to perform in a manner reasonably expected given its nature and intended purpose, as alleged herein.

74. The subject aircraft was not reasonably safe as designed. At the time of its manufacture, the likelihood that the subject aircraft would cause injury or death to passengers aboard the subject aircraft, including the Decedent, and considering the seriousness of the harm, outweighed the burden on Boeing of designing the subject aircraft in a way that would have prevented those harms, including the burden of issuing adequate warnings of such defects.

75. The defects in the design and warning of the subject aircraft caused the subject accident, which directly, proximately, and foreseeably caused the deaths of everyone aboard the subject aircraft, including the Decedent.

76. The Plaintiffs have been injured and thus claim all damages available to them, the estate, the survivors, the beneficiaries, and the heirs under applicable law, including pecuniary losses, loss of companionship, loss of guidance, loss of consortium, loss of advice, loss of society, and damages associated with grief, sorrow, and mental suffering, as well as pain and suffering and emotional distress.

WHEREFORE, the Plaintiffs, as Special Administrator of the Estate of the Decedent, and on behalf of the Decedent's survivors, beneficiaries, and heirs, pray for judgment in their favor against Boeing for damages, costs, fees, and all other awards deemed just. The Plaintiffs further demands a trial by jury of all issues triable as of right by a jury.

COUNT II
NEGLIGENCE – PRODUCTS LIABILITY

77. The Plaintiffs re-adopt and re-allege paragraphs 1 through 68 above.

78. At all relevant times, Boeing owed a duty to use reasonable care, and to exercise the highest degree of care, in planning, designing, certifying, manufacturing, assembling, installing, overhauling, modifying, repairing, testing, inspecting, marketing, and distributing its aircraft, including the subject aircraft, and its component parts, so as to not cause injury to, or the death of, the subject aircraft's passengers, including the Decedent, who would put the subject aircraft to its normal and intended use.

79. Boeing negligently breached the duty of care it owed to the Plaintiffs and the Decedent by negligently and carelessly designing the subject aircraft with unreasonably dangerous defects, by designing an unreasonably dangerous product that failed to perform in a manner reasonably to be expected in light of its nature and intended function, and by placing the subject aircraft into the stream of commerce with unreasonably dangerous design defects

80. At all relevant times, the subject aircraft was sold and delivered by Boeing without being altered by some other party and without substantial change in the condition in which it was sold and delivered, and it was being used as intended by, or in a manner that was reasonably foreseeable to, Boeing.

81. At the time the subject aircraft left the custody and control of Boeing, at which point it entered the stream of commerce, and by and through the negligent actions or omissions of

Boeing, the subject aircraft was defective in design, had inadequate warnings, and was unreasonably dangerous in the following ways, among others:

- a. the subject aircraft's automated flight control system, which is new and unique to the 737 MAX series, causes the aircraft to dive down automatically towards the ground in situations where such dives are unwarranted, unreasonably dangerous, and erroneous;
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- c. the subject aircraft's flight control system incorrectly and automatically operates the aircraft in such a way as to cause excessive nose-down inputs and significant altitude loss;
- d. the subject aircraft's sensors are defective and generate false readings, including false readings related to the aircraft's angle of attack—the angle between the wing and the oncoming airflow—which triggers the aircraft's automated flight management and control systems to push the aircraft's nose downward;
- e. the subject aircraft's lack of redundancies in its sensors renders it unreasonably dangerous because minor inputs and minor errors can force the aircraft into an uncontrollable nosedive;
- f. the subject aircraft's defective sensors and flight control system cause the aircraft's control yolk to feel different from the yolks used for training the users of the 737 series, which cause the subject aircraft's pilots to be confused and unable to correct the subject aircraft's automatic dive;
- g. Boeing failed to warn the airlines, pilots, users, and intended third-party beneficiaries of the defective automation that causes the subject aircraft to dive, Boeing failed to warn of the defective sensors, and Boeing failed to warn and educate users on possible manual overrides to the subject aircraft's defective system; and
- h. Boeing failed to adequately test the subject aircraft, its flight control system, and its sensors, and Boeing failed to substantiate the changes to its previous 737 models with sufficient testing and data.

82. At all relevant times, Boeing negligently failed to warn the public, the airlines, the pilots, the users, and the intended third-party beneficiaries of the 737 MAX 8's unreasonably dangerous and defective design, including that the aircraft automatically and uncontrollably dived partly because of erroneous sensors.

83. At all relevant times, the subject aircraft failed to perform in a manner reasonably expected given its nature and intended purpose, as alleged herein.

84. The subject aircraft was not reasonably safe as designed. At the time of its manufacture, the likelihood that the subject aircraft would cause injury or death to passengers aboard the subject aircraft, including the Decedent, and considering the seriousness of the harm, outweighed the burden on Boeing of designing the subject aircraft in a way that would have prevented those harms, including the burden of issuing adequate warnings of such defects.

85. The defects in the design and warning of the subject aircraft caused the subject accident, which directly, proximately, and foreseeably caused the deaths of everyone aboard the subject aircraft, including the Decedent.

86. The Plaintiffs have been injured and thus claim all damages available to them, the estate, the survivors, the beneficiaries, and the heirs under applicable law, including pecuniary losses, loss of companionship, loss of guidance, loss of consortium, loss of advice, loss of society, and damages associated with grief, sorrow, and mental suffering, as well as pain and suffering and emotional distress.

WHEREFORE, the Plaintiffs, as Special Administrator of the Estate of the Decedent, and on behalf of the Decedent's survivors, beneficiaries, and heirs, pray for judgment in their favor against Boeing for damages, costs, fees, and all other awards deemed just. The Plaintiffs further demand a trial by jury of all issues triable as of right by a jury.

COUNT III
FAILURE TO WARN

87. The Plaintiffs re-adopt and re-allege paragraphs 1 through 68 above.

88. At all relevant times, Boeing owed a duty to use reasonable care, and to exercise the highest degree of care, in planning, designing, certifying, manufacturing, assembling,

installing, overhauling, modifying, repairing, testing, inspecting, marketing, and distributing its aircraft, including the subject aircraft, and its component parts, so as to not cause injury to, or the death of, the subject aircraft's passengers, including the Decedent, who would put the subject aircraft to its normal and intended use.

89. Boeing negligently breached the duty of care it owed to the Plaintiffs and the Decedent by negligently and carelessly designing the subject aircraft with unreasonably dangerous defects, by designing an unreasonably dangerous product that failed to perform in a manner reasonably to be expected in light of its nature and intended function, and by placing the subject aircraft into the stream of commerce with unreasonably dangerous design defects

90. At all relevant times, the subject aircraft was sold and delivered by Boeing without being altered by some other party and without substantial change in the condition in which it was sold and delivered, and it was being used as intended by, or in a manner that was reasonably foreseeable to, Boeing.

91. At the time the subject aircraft left the custody and control of Boeing, at which point it entered the stream of commerce, and by and through the negligent actions or omissions of Boeing, the subject aircraft was defective in design, had inadequate warnings, and was unreasonably dangerous in the following ways, among others:

- a. the subject aircraft's automated flight control system, which is new and unique to the 737 MAX series, causes the aircraft to dive down automatically towards the ground in situations where such dives are unwarranted, unreasonably dangerous, and erroneous;
- b. the subject aircraft's electrical and computer components erroneously and automatically force the nose of the airplane down, causing it to dive, even when the aircraft is being flown manually by pilots;
- c. the subject aircraft's flight control system incorrectly and automatically operates the aircraft in such a way as to cause excessive nose-down inputs and significant altitude loss;

- d. the subject aircraft's sensors are defective and generate false readings, including false readings related to the aircraft's angle of attack—the angle between the wing and the oncoming airflow—which triggers the aircraft's automated flight management and control systems to push the aircraft's nose downward;
- e. the subject aircraft's lack of redundancies in its sensors renders it unreasonably dangerous because minor inputs and minor errors can force the aircraft into an uncontrollable nosedive;
- f. the subject aircraft's defective sensors and flight control system cause the aircraft's control yolk to feel different from the yolks used for training the users of the 737 series, which cause the subject aircraft's pilots to be confused and unable to correct the subject aircraft's automatic dive;
- g. Boeing failed to warn the airlines, pilots, users, and intended third-party beneficiaries of the defective automation that causes the subject aircraft to dive, Boeing failed to warn of the defective sensors, and Boeing failed to warn and educate users on possible manual overrides to the subject aircraft's defective system; and
- h. Boeing failed to adequately test the subject aircraft, its flight control system, and its sensors, and Boeing failed to substantiate the changes to its previous 737 models with sufficient testing and data.

92. At all relevant times, Boeing negligently failed to warn the public, the airlines, the pilots, the users, and the intended third-party beneficiaries of the 737 MAX 8's unreasonably dangerous and defective design, including that the aircraft automatically and uncontrollably dived partly because of erroneous sensors.

93. At all relevant times, the subject aircraft failed to perform in a manner reasonably expected given its nature and intended purpose, as alleged herein.

94. The subject aircraft was not reasonably safe as designed. At the time of its manufacture, the likelihood that the subject aircraft would cause injury or death to passengers aboard the subject aircraft, including the Decedent, and considering the seriousness of the harm, outweighed the burden on Boeing of designing the subject aircraft in a way that would have prevented those harms, including the burden of issuing adequate warnings of such defects.

95. The defects in the design and warning of the subject aircraft caused the subject accident, which directly, proximately, and foreseeably caused the deaths of everyone aboard the subject aircraft, including the Decedent.

96. The Plaintiffs have been injured and thus claim all damages available to them, the estate, the survivors, the beneficiaries, and the heirs under applicable law, including pecuniary losses, loss of companionship, loss of guidance, loss of consortium, loss of advice, loss of society, and damages associated with grief, sorrow, and mental suffering, as well as pain and suffering and emotional distress.

WHEREFORE, the Plaintiffs, as Special Administrator of the Estate of the Decedent, and on behalf of the Decedent's survivors, beneficiaries, and heirs, pray for judgment in their favor against Boeing for damages, costs, fees, and all other awards deemed just. The Plaintiffs further demand a trial by jury of all issues triable as of right by a jury.

COUNT IV
CIVIL CONSPIRACY

97. The Plaintiffs re-adopt and re-allege paragraphs 1 through 68 above.

98. Boeing conspired with and assented to a scheme, device, plan, and agreement with other entities and individuals, including the FAA and/or personnel delegated authority by the FAA, to certify the Boeing 737 MAX series in violation of the laws and regulations of the United States for the purpose of speeding up the approval process of the Boeing 737 MAX series, which in turn gave Boeing a financial and competitive advantage in the aviation industry.

99. Boeing and these other entities and individuals engaged in concerted actions to conceal, deny, and downplay the hazards and safety concerns, in violation of federal regulations, presented by the Boeing 737 MAX 8's new features, including its MCAS, heavier and repositioned engines, and unstable aerodynamics.

100. Boeing took overt tortious and/or unlawful actions in furtherance of the conspiracy, including by failing to correctly classify the safety concerns presented by the MCAS; by failing to adhere to industry standards and regulations in designing and testing the 737 MAX; by failing to recuse itself from the certification process when it knew or should have known that it was acting under tremendous financial pressure to certify the 737 MAX promptly; and by applying pressure, whether directly or indirectly, to the Boeing personnel that had been delegated regulatory authority to certify the 737 MAX without appropriate testing and data, and in a rushed manner,

101. As a direct and proximate result of this conspiracy, the Plaintiffs have been harmed, and hereby claim all damages available under applicable law.

WHEREFORE, the Plaintiffs, as Special Administrator of the Estate of the Decedent, and on behalf of the Decedent's survivors, beneficiaries, and heirs, pray for judgment in their favor against Boeing for damages, costs, fees, and all other awards deemed just. The Plaintiffs further demand a trial by jury of all issues triable as of right by a jury.

JURY TRIAL

The Plaintiffs demand a jury trial.

Dated: March 28, 2019

Respectfully Submitted,

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